

19971029.qrp v00_n893.qrs.971029

Date: Wed, 29 Oct 1997 19:03:17 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 893

QRP-L Digest 893

Topics covered in this issue include:

- 1) [29808] Re: CW/SSB ratio=18dB. may be better!
by rheiss@sprynet.com (Rob Heiss)
- 2) [29809] Socorro Hamfest / FYBO '98
by wa5whn@juno.com
- 3) [29809] Re: NorCal 2222 Building Contest
by rheiss@sprynet.com (Rob Heiss)
- 4) [29810] Re: FOX
by Monte Stark <ku7y@sage.dri.edu>
- 5) [29810] Re: MFJ 9040 MODS?
by Michael <MichaelN@cycat.com>
- 6) [29810] Doppler Intruder Alarms
by Bryn Joynes <bjoynes@edge.net>
- 7) [29811] Re: Socorro Hamfest / FYBO '98
by Paul Harden <pharden@aoc.nrao.edu>
- 8) [29812] Fox: Aluminum can!
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 9) [29812] Shrinking list of stuff for sale
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 10) [29812] alinco 2m/440 rig
by n2jgu@juno.com (Gary M Diana)
- 11) [29813] Re: Zero Beat (long question)
by Jeff Grudin <grudin@pacific.vdbs.com>
- 12) [29812] Re: NorCal paddle specs?
by "Greg K. Pollard" <cwgreg@worldnet.att.net>
- 13) [29813] Suggestions for Homebrew HF QRP Transmitters.....
by Andrew Quinn <Andrew.Q@greatelk.com>
- 14) [29812] Re: NorCal 2222 Building Contest
by Paul Harden <pharden@aoc.nrao.edu>
- 15) [29813] Re: More on Shielded Loops, by Steve Weber
by Jade Account <jadepro@jadeprod.com>
- 16) [29814] Re: Zero Beat (long question)
by "Ron Smith" <resmith@primenet.com>
- 17) [29815] FS: Kenwood TS-50S & AT-50
by "Dave Redfearn" <n4elm@ipass.net>
- 18) [29816] Re: NorCal 2222 Building Contest
by Hank Kohl K8DD <k8dd@contesting.com>
- 19) [29817] pse information AM7910

- by Osvaldo DAngelo <lu7fdz@biblielle.ros.com.ar>
- 20) [29818] CW/SSB=18db! I doubt it!
by mpupeza@csolve.net (Michael Pupeza)
- 21) [29819] BuzzNot Question
by Bill Myers <bjmyers@arc.net>
- 22) [29820] FOX tonight!
by David Bixler <qrp@netins.net>
- 23) [29821] More FOX log corrections de N0TFI
by Jess Gypin <jessqrp@concentric.net>
- 24) [29822] Re: NorCal 2222 Building Contest
by tahrens1@juno.com
- 25) [29823] Question about 2N2222 Norcal building contest?
by Jade Account <jadepro@jadeprod.com>
- 26) [29824] Fox nabbed (Maybe my luck is improving!)
by Jess Gypin <jessqrp@concentric.net>
- 27) [29825] Re: Help:NVIS antenna info? (lengthy)
by Leon Heller <leon@lfheller.demon.co.uk>
- 28) [29826] NOUR in NM, Calls Heard
by "James R. Duffey" <jamesd1@flash.net>
- 29) [29826] Re: Fox: Aluminum can!
by Monte Stark <ku7y@sage.dri.edu>
- 30) [29827] FOX: VE7 - Ouch!
by "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
- 31) [29828] -Anybody hear me in Fox Hunt?
by SEAB&SHARON LYON <SSLYON@worldnet.att.net>
- 32) [29829] Fox
by Monte Stark <ku7y@sage.dri.edu>
- 33) [29830] -Anybody hear me in Fox Hunt?
by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
- 34) [29831] NOUR in NM, Calls Heard
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 35) [29831] Fox
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 36) [29831] Re: Zero Beat (long question)
by Dale Scott <dcscott@us.ibm.com>
- 37) [29831] QRP-L 15 Xcvr: Help!!
by amarriot@direct.ca (Albert Daniel Marriott)
- 38) [29832] Re: NorCal 2222 Building Contest
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 39) [29833] ICOM Rigs - QRP
by Jeff & Bea Hahn <jhahn@bellatlantic.net>
- 40) [29834] FS: 32MB Ram
by "Ron Polityka" <wb3aal@talon.net>
- 41) [29835] CW/SSB = 13 db, by mathematics
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 42) [29836] Wanted - one Autek RF-1 Antenna Analyst, or comments about...
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
- 43) [29837] Re: CW/SSB=18db\! I doubt it\!

by Zack Lau <zlau@arrl.org>
44) [29838] ICOM Rigs - QRP
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
45) [29839] Re: Fox
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
46) [29840] QRP flashlight
by Jim <kj5tf@mctc.com>
47) [29841] RE: Help: NVIS antenna info?
by Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
48) [29842] Re: Wanted - one Autek RF-1 Antenna Analyst, or comments about...
by kv7g@juno.com
49) [29843] Re: Zero Beat (long question)
by "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
50) [29844] Just how does a mixer work, mathematically?
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
51) [29845] Re: Pixie2 Files Sent!
by "Claton Cadmus" <aplitech@spacestar.net>
52) [29846] RE: Help: NVIS antenna info?
by Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
53) [29847] Re: N/T Fox?
by mikemo@ibm.net
54) [29848] RE: Help: NVIS antenna info?
by Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
55) [29849] Thanks for Zero Beat info
by Andy Fox <foxes@theriver.com>
56) [29850] RE: -Anybody hear me in Fox Hunt?
by n4js@amsat.org
57) [29851] Re: QRP flashlight
by Steve Miller <kg7pv@teleport.com>
58) [29852] RE: Help: NVIS antenna info?
by "W. D. Lindsey" <70511.3041@compuserve.com>
59) [29852] Re: N/T Fox?
by "W. D. Lindsey" <70511.3041@CompuServe.COM>
60) [29852] Re: QRP flashlight
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
61) [29853] Norcal 2222 Design Contest
by "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
62) [29854] FOR SALE:TEN TEC ARGO 556
by gregoire@endor.com
63) [29855] Norcal 2222 Design Contest Thoughts
by "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
64) [29856] Unfriendly Pixie File :-(
by fmathews@norfolk.infi.net (Frank Matthews)
65) [29857] RE: NorCal 2222 Building Contest
by "HB Electronics (Bob Berlyn)" <hb_elec@ids.net>
66) [29858] Need schemo for Hallicrafters S-53A
by NilsBull@aol.com
67) [29859] Sub Arctic Fox log final edition

by Paul Erickson <paul1@wizard.ucs.sfu.ca>
68) [29860] Re: ICOM Rigs - QRP
by Steve Hideg <Steve.Hideg.1@nd.edu>
69) [29861] FOX Hunt for N0UR
by Tim Pettibone <tpettibo@NMSU.Edu>
70) [29861] CW and JAG
by Dale Scott <dcscott@us.ibm.com>
71) [29861] Re: ICOM Rigs - QRP
by "Kevin F. Glynn" <kfglynn@prodigy.net>
72) [29862] Re: Just how does a mixer work, mathematically?
by Charles Kadesch <chas@digizen.net>
73) [29862] CW and JAG
by "W. D. Lindsey" <70511.3041@CompuServe.COM>
74) [29863] Re: CW and JAG
by Chris Cartwright <ccart@dns.vidtel.com>
75) [29864] Re: CW and JAG
by "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
76) [29865] Re: NVIS
by "Earl S. Mead" <k6esmead@pacbell.net>
77) [29866] Tnx fer NVIS assist
by "W. D. Lindsey" <70511.3041@compuserve.com>
78) [29867] Re: ICOM Rigs - QRP
by Bob Patten <n4bp@shadow.net>
79) [29868] FOX Hunt for N0UR
by "W. D. Lindsey" <70511.3041@CompuServe.COM>
80) [29869] 2222....22
by "Daniel L. Evans" <dlevans@hsonline.net>
81) [29870] Re: ICOM Rigs - QRP
by "W. D. Lindsey" <70511.3041@compuserve.com>
82) [29871] RE: Help:NVIS antenna info?
by "Larry Cruise" <Larry.Cruise@MCI.Com>
83) [29872] Fox follies
by "Michael A. Gipe" <mgipe@reliablemeters.com>
84) [29871] Re: Need schemo for Hallicrafters S-53A
by Bob Patten <n4bp@shadow.net>
85) [29872] RE: QRP in CW SS
by "Gene A. Williamson" <genewill@ordata.com>
86) [29873] FOX: CA vs TX vs AZ
by Chris Cartwright <ccart@dns.vidtel.com>
87) [29874] Re: Just how does a mixer work, mathematically?
by Henry Freedenberg <henryf@quartz.gly.fsu.edu>
88) [29873] Re: Fox follies
by Joe Gervais <vole@primenet.com>
89) [29874] ICOM - QRP
by Jeff & Bea Hahn <jhahn@bellatlantic.net>
90) [29875] Re: Fox follies
by adams@chuck.dallas.sgi.com (Chuck Adams)
91) [29876] Re: Fox follies

- by Bob Hightower <ki7mn@dancris.com>
- 92) [29877] PIC'S and amateur radio
by Dave Marling <dbm@klis.com>
- 93) [29878] Re: Fox follies
by Monte Stark <ku7y@sage.dri.edu>
- 94) [29879] 455kHz ceramic filter differences
by "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
- 95) [29880] Euro NORCAL QRP Subs and Paddle Kit Orders
by Stephen John Farthing <stephen@stevef.demon.co.uk>
- 96) [29881] Re: FOX: CA vs TX vs AZ
by Monte Stark <ku7y@sage.dri.edu>
- 97) [29882] Re: Fox follies
by Paul Maciel <pmaciel@inow.com>
- 98) [29883] re: 2N2222 design contest
by Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
- 99) [29884] Surplus Sales of Nebraska...Catalog
by Bill Howell <bhowell@mail.utexas.edu>
- 100) [29885] Re: Norcal 2222 Design Contest
by Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
- 101) [29886] 2222 Design contest questions
by ki6ds@dpol.k12.ca.us (Hendricks, Doug)
- 102) [29887] Attn: Disabled QRP'ers...
by "Bill L." <wn8mea@hotmail.com>
- 103) [29888] Re: NVIS article
by Bill Howell <bhowell@mail.utexas.edu>
- 104) [29889] Pixie2 Revision File
by fmathews@norfolk.infi.net (Frank Matthews)
- 105) [29890] Re: 2222 Design contest questions
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 106) [29891] Re: 2222 Design contest questions
by Ed Loranger <we6w@qsl.net>
- 107) [29892] Re: Norcal 2222 Design Contest
by "Bob Edwards, W4ED" <w4ed@flash.net>
- 108) [29893] Re: 2222 Design contest questions
by Niel Skousen <nskousen@scientech.com>
- 109) [29894] Spots
by adams@chuck.dallas.sgi.com (Chuck Adams)
- 110) [29895] Re: 455kHz ceramic filter differences
by Paul Harden <pharden@aoc.nrao.edu>
- 111) [29896] Re: CW and JAG
by "Russell W. white" <ruswhite@netzone.com>
- 112) [29897] Re: 455kHz ceramic filter differences
by "Michael A. Gipe" <mgipe@reliablemeters.com>
- 113) [29898] Re: Norcal 2222 Design Contest
by Paul Harden <pharden@aoc.nrao.edu>
- 114) [29899] Call Sign Change for N2MNN
by "Steven Pituch" <n2mnn@spacegate.com>
- 115) [29900] FOX: N/T fox sched

by "Steven Pituch" <n2mnn@spacegate.com>
116) [29901] FOX: Thurs night N/T FOX
by "Steven Pituch" <n2mnn@spacegate.com>
117) [29902] Re: 2222 Design contest questions
by Monte Stark <ku7y@sage.dri.edu>

Date: Tue, 28 Oct 1997 15:59:17 -0800
From: rheiss@sprynet.com (Rob Heiss)
To: qrp-1@Lehigh.EDU
Subject: [29808] Re:CW/SSB ratio=18dB. may be better!
Message-ID: <199710282359.PAA25245@m5.sprynet.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

> in cw you allways have full output power for your information, so your
> gain is another 5db, which is ssb lower, up here its a gain of about
> the 18dB.

That 5dB peak to average penalty is often avoided by QRPers, perhaps
inadvertantly, by using an average-reading meter to adjust SSB for 5
watts. If the transmitter is capable of more, the voice peaks could be
up to 16 watts, otherwise the rig will flat-top giving punchy pileup-
busting audio but splattering all over the band. ;-)

73, Rob K06KA
rheiss@sprynet.com

Date: Tue, 28 Oct 1997 17:06:14 -0700
From: wa5whn@juno.com
To: qrp-1@Lehigh.EDU
Cc: mastark@sandia.gov, jaybro@nmt.edu, vole@primenet.com
Subject: [29809] Socorro Hamfest / FYBO '98
Message-ID: <19971028.170732.3254.1.wa5whn@juno.com>

qrp-1ers,

Just a reminder, Socorro, NM Hamfest is Nov. 15th (1500 - 2300 UTC) @ The
Sarricino Middle School (north end of town). For more information, about
this event, contact Al, AC5BX@juno.com or KB5YIW, Dave (djohnson@nmt.edu)
or view the following URL;

<http://griffy.nmt.edu/SARA/homepage.html>

Enmass huddle is planned for the NM QRP Crowd, so that we can plan our upcoming FYBO '98 activity. Hey, when is FYBO ? Last I had heard AB7TT was lost somewhere near K2 (mountain peak, not the call area). An announcement will be forthcoming from AB7TT, about FYBO '98, after he thaws out.

back to my siesta...Jay, WA5WHN, 1 hour drive north of Socorro, NM, USA

Date: Tue, 28 Oct 1997 16:25:45 -0800
From: rheiss@sprynet.com (Rob Heiss)
To: qrp-1@Lehigh.EDU
Subject: [29809] Re: NorCal 2222 Building Contest
Message-ID: <199710290025.QAA10918@m5.sprynet.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Steve, KD1JV wrote:

> Sure wish we could also sprinkle in a few 2N2907's. Somethings are
> going to be a little tricky to do without PNP's. Sort of like trying
> to get home from work making only left hand turns. Guess that will all
> be part of the challenge.

I hear you! The PN2222A is one of the least expensive transistors at about 60 dollars per thousand, but it's so painful to be stuck with only that for a low-current IF stage, or a high power transmitter final.

My favorite keying circuit really needs a PNP transistor. I have a good transistorized headphone amp working but it needs both PNP and NPN. And what to do about audio muting without a JFET? Start over from scratch. Well, I have a 30m VFO that could be used as is, hmmmm. It will be very interesting to see what folks can do within the tough restrictions.

73, Rob K06KA
rheiss@sprynet.com

Date: Tue, 28 Oct 1997 16:37:09 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Gary L L Surrency <gsurrency@juno.com>

Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29810] Re: FOX
Message-ID: <Pine.SUN.3.90.971028163558.26438B-1000000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 27 Oct 1997, Gary L L Surrency wrote:

> >I don't want to use UTC. Can I use GMT instead?
> >
>
> Yeah, sure. That's what it was called when I was a Novice back in 1968.
> Of course, Zulu always sounded kinda cool to me too. ;-)

Hi Gary and all,

Watch the 98 issue of the QRP ARCI Quarterly for an explanation
of UTC!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Tue, 28 Oct 1997 19:54:54 -0500
From: Michael <MichaelN@cycat.com>
To: qrp-l mailing list <qrp-l@Lehigh.EDU>
Subject: [29810] Re: MFJ 9040 MODS?
Message-ID: <3456895E.70DB@cycat.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

mikemo@ibm.net wrote:

>

> Mike Duke wrote:

> > He says that the vfo drifts and chirps, especially around 7040. He would
> > also like to get a little more audio from the speaker.

> If you find out anything, please let me know. I've been trying to get
> this info for a month.

> Thanks!

> Mike Maiorana

> kf4trd

My experience is that MFJ wants you to be happy.
Try calling 1-800-647-8324. This is the MFJ tech help line.

I called them about the AGC pumping problem in my 9020 and they told me exactly how to fix it, right over the phone, no muss, no fuss.

Not only does MFJ want you to be happy, they want you to be able to maintain and repair your rig yourself. Attempting repair does NOT void the MFJ warranty.

michael N6CHV

Date: Tue, 28 Oct 1997 19:01:43 -0600
From: Bryn Joynes <bjoynes@edge.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29810] Doppler Intruder Alarms
Message-ID: <34568AF7.68D4@edge.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Good evening everybody,

I just got Octobers RadCom (The British QST), and it had a simple 10Ghz project using Doppler Intruder Alarms. This project is for WBFM, with or without a dish by the looks. The output of this device would be about 10 to 20mW. The 'back-end' would be an FM reciever in the 10 to 60MHz range.

The Question is, does or has anybody used a doppler intruder alarm, and where could I obtain a couple? Also what would the price be? In the magazine, they are talking about \$8 to \$15 surplus. Again, what model of intruder alarm should I look for.

Any thoughts on this would be helpful.

I hope this subject is appropriate for QRP-L, I thought it might be O.K.

--

Best Regards

Bryn Joynes

KF4GK0 EM65L0

Date: Tue, 28 Oct 1997 18:05:13 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: wa5whn@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29811] Re: Socorro Hamfest / FYBO '98
Message-ID: <Pine.SOL.3.91.971028175330.4501A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 28 Oct 1997 wa5whn@juno.com wrote:

> qrp-lers,
>
> Just a reminder, Socorro, NM Hamfest is Nov. 15th (1500 - 2300 UTC)
>
> Enmass huddle is planned for the NM QRP Crowd, so that we can plan our
> upcoming FYBO '98 activity. Hey, when is FYBO ?

Just to ensure there is no misunderstanding, I will NOT be participating in the hamfest much this year, mostly because the club is not officially sponsoring any QRP activities. So no QRP talks or the test table I usually do. Just don't want anyone driving in from AZ or TX expecting some QRP activities. Maybe the club will return to supporting QRP next year.

Of course, any NM QRPers who wish to come to the hamfest anyway, doesn't mean we can't have an informal mini-NewMexiCon at the Owl Bar :-)

>back to my siesta...Jay, WA5WHN,
>1 hour drive north of Socorro, NM, USA
^^^^^^^^^^^^^^

Let's see, Socorro to Albuquerque is like 82 miles, and from Jay's house probably 90, hmmm ...

72, Paul NA5N

Date: Tue, 28 Oct 1997 17:12:44 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "QRP-L list server" <qrp-l@Lehigh.EDU>
Cc: "Jack Bryant" <jbryant@math.tamu.edu>, "Stan Goldstein" <stan@cruzio.com>,
"Ron Stark" <ku7y@sage.dri.edu>, "Chuck Adams" <adams@chuck.dallas.sgi.com>,
"Michael A. Gipe" <K1MG@amsat.org>
Subject: [29812] Fox: Aluminum can!
Message-ID: <199710290111.TAA30157@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Just placed my order for 46 more pounds of aluminum.

Bring on those foxes!

Mike K1MG

Date: Tue, 28 Oct 1997 20:28:20 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: forsale-swap@qth.net, qrp-l <qrp-l@Lehigh.EDU>, eax@w3eax.umd.edu, Laurel ARC
<larc-l@webtrek.com>
Subject: [29812] Shrinking list of stuff for sale
Message-ID: <Pine.LNX.3.95.971028202644.15907B-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Offers considered on all. CU in CW Sweeps from W3EAX.

HF/QRP

Yaesu FT-890AT HF xcvr with optional SSB AND CW
filters, ant tuner, keyer, general coverage, etc.
Excellent triple-conversion receiver, adjustable
noise blanker, IF shift, notch filter, QRP-able.
CTCSS tone encoder, two VFOs, lots of memories.
Excellent condition w/box, manual, power cord, mic.
\$900.

Icom IC-751, quadruple conversion receiver.
Reduced to 1w output, and will still run QRO
No manual. Rig comes with std 500 Hz CW filter.

Synthesized, easy to use, not too many buttons and knobs. General coverage receiver, AM/FM/SSB/RTTY/CW. Passband tuning. 32 memories. Mode-specific memory scan (pretty unique). Just excess to my needs. \$700.

A&A Engineering 20m QRP rig, minus some ICs. Excellent condition with manual. \$70.

S&S Engineering ARK 20 QRP rig. 20m, with electronic keyer, audio filter, built-in speaker, 5w output. Very rugged. Manual included, along with FREE Ramsey linear amp (20w). \$275.

MFJ-9420 20m SSB radio. Excellent condition, with manual. 12w PEP. \$175. Also have CW adaptor for said radio, \$30 or \$25 with radio.

Accessories

Crummy little "Diesel" HF wattmeter/Field Strength meter. Works OK, has 10/100 watt ranges, but not wonderfully calibrated. SWR and power are displayed. Solid metal box with decent-sized meter. \$13.

GC Electronics 3 amp regulated 12 VDC power supply. 5 amps surge. Small, with 5-way binding posts on front panel. \$22.

2m - transverter & amps

Ten-Tec model 1210 2m xverter kit, unbuilt. Was \$148 shipped from Ten-Tec, asking \$144 shipped. Box has yet to be opened. Can build to suit as well. Thinking of buying one from the factory?

TPL 2m 80w allmode amp. Excellent condition, with manual. 18w input gives 80w output. \$100.

Mirage B-108G 2m 80w FM/SSB amp with preamp. Requires 10 watts input, in excellent condition. \$123.

THS Electronics 1-10 2m Class C amp. 1 watt in, 10 watts out. Great physical shape, and comes with fused power cable. Seems to like operation at 5 watts output, although when first fired up it puts out about 10. Thus it's got a problem. Have schematic but little time; \$10.

Motorola 2m amp, good for FM only at about 50 watts.
Excellent condition, asking \$65.

Handheld FM radios

Radio Shack HTX-202. Works well. Basic 2m
handheld with superior front end for intermod
prevention. \$125.

Excellent condition Yaesu FT-470 2m/440 MHz HT.
5w out with proper battery. Works great, have manual.
Two receivers, no dual-in-band receive. \$240.

2m Mobile rigs

Radio Shack HTX-242 2m 10/45 watt mobile rig.
CTCSS encode and decode, direct freq. entry from
DTMF mic, MARS/CAP xmit performed, etc. Lots
of memories. New condition, with mic, power cord,
extended receive, box, quick-reference. New
condition, \$299 new, bought for my sister but
they need "new tires for the truck" it's going in.
\$225.

Scanners - base and handheld

Radio Shack Pro-2039 desktop scanner. New condition
in original box w/manual. 200 channels, public
service/amateur/etc. Cell-blocked. Hyperscan.
\$249 new, asking \$165.

Radio Shack Pro-2046 mobile scanner. Like new condition
in original box w/manual. 100 channels, cell-blocked,
etc. \$230 new, asking \$150.

Radio Shack Pro-51 handheld scanner. New condition,
200 channels, 800 MHz, with box, manual, rubber
duckie antenna. \$299 new once, asking \$180.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Tue, 28 Oct 1997 20:34:19 -0500
From: n2jgu@juno.com (Gary M Diana)
To: qrp-1@Lehigh.EDU
Cc: embres@frontiernet.net
Subject: [29812] alinco 2m/440 rig
Message-ID: <19971028.203422.3214.4.n2jgu@juno.com>

Hello all -

I received the TechAmerica sale flyer in the mail today, and on the front cover, they are selling the Alinco mini HTs for \$88.

These are the DJ-S11T (2m) and DJ-S41T (440) fm handhelds. They put out 340mW on high, 50mW on low power, and run off of (3) AA batteries. I bought the 2m model at dayton97, within minutes of seeing Jim Cates WA6GER with his! These are shirt pocket sized rigs. The street price on these is usually \$119.

My only connection to Alinco is being a satisfied customer; I've never ordered from TechAmerica, but there bulk components prices look pretty good.

73, Gary N2JGU
n2jgu@juno.com

Date: Tue, 28 Oct 1997 17:41:09 -0800
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: foxes@theriver.com
Cc: qrp-1@Lehigh.EDU
Subject: [29813] Re: Zero Beat (long question)
Message-ID: <34569435.143E@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Andy,

I am sure someone on the list will give you a better answer but here goes. On the NC40A, the best way to zero beat in my mind is to do the ABX mod. This mod is great for operating too.

With the RIT off, tune to where you think the correct place is. Gradually reduce the filter setting. If you are loosing the station retune. Continue this until you can hear the station with the filter

the tightest (about 150Hz). You can now open the filter a bit and you will be close enough.

You could key up and tune until the received sound and the transmitted sound are the same, but I don't think you will have a happy operator on the other end.

With a commercial rig you can usually turn off the transmit and key down and tune until the received tone and the sidetone match (without causing QRM) and that works pretty well.

Hope that helps.

--

73 de Jeff AC6KW
grudin@vdbbs.com

QRP-L #16	Private Practice : Companion Animals and
Exotics	
Norcal QRP #1292	Ocean Animal Clinic / Cat Clinic of Santa
Cruz	
	Santa Cruz,
California	

QRP'ers do it with less energy (but lot's of enthusiasm)!

Date: Tue, 28 Oct 1997 19:37:46 -0500
From: "Greg K. Pollard" <cwgreg@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [29812] Re: NorCal paddle specs?
Message-ID: <3.0.1.32.19971028193746.00686b7c@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 04:59 PM 10/27/97 +0000, you wrote:

>Greg, the drawing is on the Norcal page. If you can't
>web browse, I can email the drawing to you as an attachment.
>
>Same dwg that you get with the kit!
>
>-Ed Loranger
>

TNX, I was only in the web page long enough to get the order form, first

things first you know.

73

Greg W8XP

Date: Wed, 29 Oct 1997 14:59:58 +1300
From: Andrew Quinn <Andrew.Q@greatelk.com>
To: qrp-l@Lehigh.EDU
Subject: [29813] Suggestions for Homebrew HF QRP Transmitters.....
Message-ID: <713034A2AD6BD011822400805F74D58A0598DF@scampton.greatelk.co.nz>
MIME-Version: 1.0
Content-Type: text/plain

Hi all,

I am about to sit the licensing exams (in New Zealand!) and once licensed are looking to establish a QRP CW station.

Are there any recommendations on HF QRP Transmitters (between 2 and 5w) that are buildable by someone reasonably competent with a soldering iron, relatively bullet proof and well priced? These don't need to be 'kits' as I am fairly happy building from circuit diagrams although are not at the 'design your own' stage yet.

Any thoughts would be appreciated.

Regards

Andrew Quinn

Date: Tue, 28 Oct 1997 19:06:42 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: Rob Heiss <rheiss@sprynet.com>
Cc: qrp-l@Lehigh.EDU
Subject: [29812] Re: NorCal 2222 Building Contest
Message-ID: <Pine.SOL.3.91.971028184247.4501I-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> It will be very
> interesting to see what folks can do within the tough restrictions.

Maybe cheat? I mean for the building contest, is it OUR fault you can't make out the teeny weeny 2N2222 on the can? The rules don't state that the 2N2222 must be legible!

And I bet if you chip away all that black crud from an IRF510 power mosfet, you could probably repackage the die into a 2N2222 TO-18 metal can version. I mean, who'll know? Just act mystified as to why you're the only person on the face of the earth getting 7W from a 2222.

Now you can use diodes, but not commercial passive mixers. That's a mystery to me. So shove a SRA mixer into a 470uF 35v electrolytic can. The judges will think you just got a little carried away with your filter caps.

And what ... you guys never heard of double sided PCB boards? I mean is it our fault OUR double sided boards are an inch apart sealed with epoxy so you can't see what's in between? Just tell the judges it's some new mu-metal stuff that gives the rig a higher-Q or something.

Get out the paper and pencil and start designing. Use your imagination. Great concept for a contest.

72, Paul NA5N

PS - I have some 2W audio amps for just \$10 that's disguised as a DPDT toggle switch. I'm tellin' ya, they'll never know.

Date: Tue, 28 Oct 97 21:12:24 PST
From: Jade Account <jadepro@jadeprod.com>
To: qrp-1@Lehigh.EDU
Subject: [29813] Re: More on Shielded Loops, by Steve Weber
Message-ID: <Chameleon.4.01.971028212541.jadepro@jadepro.jadeprod.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

You might also take a look at the cover story on QST this month, it is an entire receiver built around the shielded loop concept. I have three running here, one for 30M, 40M and 80M. I have two of the MAP04FP chips that are used

in the receiver, so I keep swapping them around.

In the next few days our supply of AMP04FP chips is supposed to arrive from Analog Devices, once that happens we can ship out a bunch of orders to folks that have been waiting very patiently for them, you're going to love how this kit goes together.

A couple of other interesting things I've noted with the shielded loop concept:

- o Often BOTH sides of a QSO can be heard quite distinctly, my main station receiver (Drake TR-7A) with an outdoor Windom antenna does not do as well. This may have to do with the directivity of the Windom, and not being able to rotate, but I suspect that it has more to do with the magnetic field propagation.

- o The antenna works inside of an aluminum building quite well, for example, an aluminum camper.

- o Very little energy is radiated FROM the receiver, due to very careful attention to input balance. This is not the case with my Neophyte.

- o Even though the receiver is a direct conversion unit, being able to pick either sideband and rotate the antenna compensates for not having sharp filters available.

Of course the noise rejection etc. has been covered by DeMaw and others over the years many times, no need to elaborate on that.

72'

Dennis, K1YPP

Jane Blanchard, KA1FUN, President -- Dennis, Blanchard, K1YPP, Chief Engineer

	Phone:	603-329-6995 (Telephone hours 4 to 10 PM EST)
Jade	FAX:	603-329-4499
Products,	Orders:	800-523-3776
Inc.	e-mail:	jadepro@jadeprod.com

US Mail: Jade Products, Inc
PO Box 368
East Hampstead, NH 03826-0368

See our Web Page: <http://www.jadeprod.com/>

Date: Tue, 28 Oct 1997 19:40:20 -0700
From: "Ron Smith" <resmith@primenet.com>
To: "QRP List" <qrp-l@Lehigh.EDU>
Subject: [29814] Re: Zero Beat (long question)
Message-ID: <01bce413\$ffdb3980\$localhost@Presmith>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I just finished reading this topic on a Web page. Basically you tune the receiving station to the point where there is no sound. At that point you have done the "zero beat" and then tune up or down by the offset frequency. An example would be like a signal zero beated at 7040 and frequency set at 7040.6 to hear the tone. Wish I could find the Web page reference, the author definitely did a much better job at explaining the procedure.

72

Ron

Date: Tue, 28 Oct 1997 21:35:18 -0500
From: "Dave Redfearn" <n4elm@ipass.net>
To: <qrp-l@Lehigh.EDU>
Subject: [29815] FS: Kenwood TS-50S & AT-50
Message-ID: <199710290247.VAA20717@passport.ipass.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

For Sale:
Kenwood TS-50S HF Transceiver
160-10 Meters + WARC bands
General Coverage RX
SSB,CW,AM & FM
TX power levels set for L- 4.5 watts, M - 50 watts, H - 100 watts

with:

IRCI 2.1 Khz 8 pole crystal filter kit installed,
Kenwood 500 Hz CW crystal filter, DC cable,
mike, manual, mobile mount, and box.

Kenwood AT-50 Antenna tuner
Matches the TS-50
with interface cable.

Good to excellent inside, fair to good outside.
Some scratches on the case and front panel of the TS-50.
Some scratches on the case and a wear mark on the front of the AT-50.
Everything works fine, all controls, lights and lettering are visible.

All for \$850.00 shipped in lower 48, extra for COD.

73 - Dave, N4ELM.

Date: Tue, 28 Oct 1997 21:46:55 -0500
From: Hank Kohl K8DD <k8dd@contesting.com>
To: pharden@aoc.nrao.edu
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29816] Re: NorCal 2222 Building Contest
Message-ID: <3.0.1.32.19971028214655.0078e624@tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:06 PM 10/28/97 -0700, Paul Harden wrote:

>
>

>And I bet if you chip away all that black crud from an IRF510 power
>mosfet, you could probably repack the die into a 2N2222 TO-18 metal
>can version. I mean, who'll know? Just act mystified as to why you're
>the only person on the face of the earth getting 7W from a 2222.

We regularly get 15 to 30 watts from a 2222. Set them up in a 4 transistor array in a push-push-push-push arrangement (up to 120 watts). That coupled with the .003 db gain coax (1000 ft) gives us 240 watts to the antenna. There are two drawbacks to this arrangement. (1.) the cooling unit to keep them at 14.2 kelvin (2.) the weight of the coax and (3.) the size of the trailer for transportation.

But it makes the truckers keep their distance when they see the antenna and "feel" the RF.

Month 4 in 98 will not come soon enough.

73 Hank K8DD

Date: Wed, 29 Oct 1997 00:01:30 -0300
From: Osvaldo DAngelo <lu7fdz@bibliele.ros.com.ar>
To: qrp-l@Lehigh.EDU
Subject: [29817] pse information AM7910
Message-ID: <199710290307.AAA04632@server.bibliele.ros.com.ar>
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="=====_878104890==_"

--=====_878104890==_
Content-Type: text/plain; charset="us-ascii"

--=====_878104890==_
Content-Type: text/plain; charset="us-ascii"

hello friends of the list:

much thanked to who could provide me the following informacion.

I need to know the address of trade in united states where to find the integrated AM7910 or AM7911 to build a modem baycom.

I wait report, grateful:

oswald - lu7fdz

--=====_878104890==_
Content-Type: text/plain; charset="us-ascii"

LU7FDZ
Osvaldo DAngelo
-#- ##### # # -#- Telefax: 041 - 572864
lu7fdz@bibliele.ros.com.ar
BV. AVELLANEDA 436 - 2000 Rosario

--===== _878104890==_--

Date: Tue, 28 Oct 1997 22:20:48 -0500
From: mpupeza@csolve.net (Michael Pupeza)
To: qrp-1@Lehigh.EDU
Subject: [29818] CW/SSB=18db! I doubt it!
Message-ID: <v01510102b07c57e80e10@[207.61.168.154]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Guys;

In August 1991 (Sunspot Maximum - by the way!), while in Bermuda, I had a clear SSB Contact with a station near Sydney Australia using my Argonaut 505 and a dipole up about 10 metres (33 ft). It's MAXIMUM input, in CW mode was 4.0 Watts - so the assumption, at 50% efficiency would be 2.0 Watts Output on CW. The SSB mode in the Argonaut can only achieve, not exceed, that maximum in PEP, as that appears to be the saturation output of the finals.

If 18 dB is the difference given, did I equate to an equivalent of power of 2×6 times less? Or, would a signal of 31.25 milliwatts of CW have given the SAME Contact results?

I, somehow, doubt it. It appears to me that there is MORE at work here than strict Statistics!

I have used SSB in the last 8 Field Days, excluding my failure to submit for 1997, and do not do as well as I hoped, but that is a different story altogether.

I suspect that these '18 dB rules', and others, are real Guesstimates, at best.

Don't rule out SSB in QRP at all, with the 5W SSB Output (10 W PEP), we 'Can Work the World'!

Documentation - 1000 Mile-per watt award #1263 - Dated Jan 19, 1993 QRP
ARCI R. L. Gayle - Contact VE3EQP/VP9 to VK3BFE 10,389 Miles per Watt - 2.0 WPEP.

72, guys, and don't give up QRP SSB!

Mike.....>

Michael Pupeza VE3EQP
283 Peek-a-Boo Trail RR# 2
Penetanguishene, Ont.
Canada L9M 1R2

mpupeza@spamcsolve.net (remove spam for reply)
(705) 549-3220

Date: Tue, 28 Oct 1997 21:33:04
From: Bill Myers <bjmyers@arc.net>
To: "Low Power Amateur Radio Discussions" <qrp-l@Lehigh.EDU>
Subject: [29819] BuzzNot Question
Message-ID: <3.0.1.16.19971028213304.09c72dee@mail.arc.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Part of my problem with the Fox's lately has been (what I consider to be) a horrendous amount of QRN (lots of static). Tonight it's s-6 to S-8 on my Icom 735. I can hear the fox sometimes tonight, there's some QSB also. Can't hear many of the fox hunters though...

This noise starts about an hour after sunset and slowly rises to this level. No matter how I set up the filters, SCAF, or anything else, it's there being a pain in the receiver.

The noise does not appear to be man made (a check of the neighborhood with a sniffer doesn't find any specific source) and I hear it on all the lower HF bands (160, 80, 40, 30, and some on 20 though not as bad) It's worse on 160 (imagine that). The noise is still there in the upper hf bands, but nowhere as bad.

Would the Buzznot help??? I normally run my MFJ9040 or my HW-8 and didn't realize how bad the noise was (s meter wise) until tonight when I decided to fire up the 735 and check it.

Ideas, suggextions, etc are appreciated.

BTW, the current antenna is a 90' extended zepp (long dipole). Hopefully this weekend I'll get a homebrew vertical up (but if memory serves me right, a vertical is worse on this type of noise).

Thanks for any ideas

72

Bill KK4KF

Date: Tue, 28 Oct 1997 22:49:18 -0800
From: David Bixler <qrp@netins.net>
To: QRP-L Low Power Amateur Radio Discussion <QRP-L@Lehigh.EDU>
Subject: [29820] FOX tonight!
Message-ID: <3456DC6E.477F@netins.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Jim N0UR and the gang:

Thanks for the FOX contact tonight. You were good copy here in southwest Missouri. You answered me on the first call! That is something rare these days. Usually takes me an hour or more for the pileup to die down to catch the Fox.

Tonight I was using an unusual antenna setup. Normally I use an off-center fed Zepp (132 feet long), but last weekend put up a 300-something foot end-fed long wire. I noticed that your signal was noticeably stronger when I connected BOTH antennas in parallel to the rig. I use old-fashioned DPDT knife switches for the switching arrangement with 450 Ohm ladder line.

Guess the two antennas phased together just the right way for a major lobe towards Minnesota.

You are doing a great job managing the pileup. Looking forward to seeing your log. It's gonna be a good one!

72,

Dave Bixler W0CH QRP: Minimum power, maximum fun!
Seneca, MO QRP-L 618

Date: Tue, 28 Oct 1997 20:55:52 -0700
From: Jess Gypin <jessqrp@concentric.net>

To: qrp-1@Lehigh.EDU
Subject: [29821] More FOX log corrections de N0TFI
Message-ID: <3456B3C8.15D8@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

N0TFI QRP-L Fox Hunt 01:30-03:30 UTC OCT 28th

0136 W7SSM 55N CA John 1048
0137 K5ON 5NN Name? 770
0139 N5JI 55n TX Dick 1054
0140 K2VCO 569 CA Vic 725
0142 K1MG 579 CA Mike 614
0143 N5LU 559 OK Bill 5W
0144 KK6M/5 56N MO Jim 411
0145 K5LE 559 CA Jim 524
0147 K5OI 559 NM Tim 73
0148 W03B Bob State? NR 195
0149 K0EVZ 559 MN Doc 861
0151 K8CV 559 MI Walt 925
0152 AB5UA 5NN MO Cliff 478
0154 NQ7X 559 NV Floyd 443
0156 W5TFB 5NN TX Jack 282<-----
0157 W6SV 559 CA John 48
0200 K6VNX 57N CA Arlen 5W
0201 KB0PTE 55N WA Wayne 1058
0202 K06KA 55N CA Rob 176
0203 AB7TK 56N ID Randy 102
0206 KA8MKS 55N QRM took out rest sri!
0209 VE5RC 559 SK 776
0211 KA5T 44N TX Larry 89
0212 N7KT 58N AZ Roger 626
And then the nuclear strike.....
0212 W6W 55N CA ??? 1068
0215 W0CH 55N MO Dave 618
0216 WS6NS?? TX Henry 178
0220 AB7MY %nn AZ Gary 571
0223 N6XU 55n CA Stan 66
0225 KA8OKH 55n KY Rich 925 (This was a TUFF one!)
0226 KU7Y 599+++++++ NV Ron NV 17 ;-)<-----
0240 N4ROA?? Dan 970
0241 VE3ELA 329 (no kidding!) ONT ??? 124???
0256 K5UP 559 OK Glen 211?
0311 WA5yfy 549 OK Dub 159
0316 W6EWI???
0320 AC6KW 549 CA Jeff 1292 Thanks for hanging in on that one!

--

Jess NOTFI <><
<http://www.concentric.net/~jessqrp>
qrp-1 #1232 CQC #92 1997 Fox

Date: Tue, 28 Oct 1997 21:57:55 -0600
From: tahrens1@juno.com
To: pharden@aoc.nrao.edu
Cc: qrp-1@Lehigh.EDU
Subject: [29822] Re: NorCal 2222 Building Contest
Message-ID: <19971028.220207.13086.1.tahrens1@juno.com>

Hey kit builders:

Some of you know that my secondary job (after being a volunteer fire fighter) is working at a well known semiconductor manufacturing organization.

Did you know that ..sometimes.. parts are not what they seem? Like, they have markings on them, and they act like a totally different device.

Think about it. I may have something you can use. ;-}

Tim W5FN

my private phone number is 800 PARTS RUS

: -) If you read this far down, you know that this is
a (grin) joke.hehe Seriously tho, things like that
do happen, although I've never seen a PNP in an NPN
package. I have seen a parallel port disguised as
a microprocessor tho! Never could get that sucker
to oscillate! hehe

Date: Tue, 28 Oct 97 23:10:47 PST
From: Jade Account <jadepro@jadeprod.com>
To: qrp-1@Lehigh.EDU
Subject: [29823] Question about 2N2222 Norcal building contest?
Message-ID: <Chameleon.4.01.971028231208.jadepro@jadepro.jadeprod.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can crystals be used? I would suspect so, but just want to make sure.

Dennis, K1YPP

Jane Blanchard, KA1FUN, President -- Dennis, Blanchard, K1YPP, Chief Engineer

Jade	Phone: 603-329-6995 (Telephone hours 4 to 10 PM EST)
Products,	FAX: 603-329-4499
Inc.	Orders: 800-523-3776
	e-mail: jadepro@jadeprod.com

US Mail: Jade Products, Inc
PO Box 368
East Hampstead, NH 03826-0368

See our Web Page: <http://www.jadeprod.com/>

Date: Tue, 28 Oct 1997 21:26:55 -0700
From: Jess Gypin <jessqrp@concentric.net>
To: qrp-1@Lehigh.EDU
Subject: [29824] Fox nabbed (Maybe my luck is improving!)
Message-ID: <3456BB0F.16A1@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,

Today was my oldest son's 13th Bday. He is really a teenager! I feel old;- (I took the fam out to dinner and desert and got back in at 03:45 Z and thought, not much chance for a fox. I fiddled around and donwloaded Email, brouded about my foxing last night for a few minutes and then flipped on the Kenwood from where I left it last night. Still tuned up on the Delta Loop and at 7036 (I must have bumped the knob) and who should be there but the Fox calling CQ just like me last night! So, with but a couple of minutes to go, I called once and he answered! Yahoo! Dinner out and the Fox too. It doesn't get any better. By the way all, the emergency last nite was a MINOR one and all is very well here. Like I said in a previous post, both of my boys are "challenged" in a minor way and sometimes need extra eforts in some areas. Thank the Lord for two partner marraiges, some days I really don't know how I would make it without my (AND I DO MEAN!) better half. Married 20 years soon, and some days I feel really OLD! but really blessed. Things here are fine again and thanks to all that have asked. You guys are a great group! Sniff! Sniff! Okay! Enuff of this male bonding crap, I'm gonna go kill some fox!;-)

Best to all!

--
Jess NOTFI <><
<http://www.concentric.net/~jessqrp>
qrp-1 #1232 CQC #92 1997 Fox

Date: Wed, 29 Oct 1997 03:46:38 +0000
From: Leon Heller <leon@lfheller.demon.co.uk>
To: JCoote@aol.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29825] Re: Help:NVIS antenna info? (lengthy)
Message-ID: <UIzNlCAeGrV0EwzG@lfheller.demon.co.uk>
MIME-Version: 1.0

In message <971028182326_-2145289561@mrin40.mail.aol.com>,
JCoote@aol.com writes

[deleted]

>Doc & The List:

>

>NVIS is military for Near Vertical Incidence Skywave.
>Basically, NVIS antennas are used to insure there is no skipzone within the
>intended planning range (coverage area) usually 0-300 miles in military
>manuals. In these antennas, more of the signal is concentrated at high
>angles. This allows the use of 1.6 to about 10 MHz for impossible terrain,
>such as ravines and canyons.. when FM and repeaters won't work or just can't
>be set up quickly enough.

[deleted]

The Royal Marines Arctic and Mountain Warfare Cadre uses NVIS a lot in
Norway, where they do most of their training, because of the terrain.

Leon

--

Leon Heller: leon@lfheller.demon.co.uk <http://www.lfheller.demon.co.uk>
Amateur Radio Callsign G1HSM Tel: +44 (0) 118 947 1424
See <http://www.lfheller.demon.co.uk/rcm.htm> for details of a
low-cost reconfigurable computing module using the XC6216 FPGA

Date: Tue, 28 Oct 97 21:32:56 -0700
From: "James R. Duffey" <jamesd1@flash.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [29826] NOUR in NM, Calls Heard
Message-ID: <199710290434.WAA25294@endeavor.flash.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

All - I had to attend to the History Fair at my daughter's school so I
missed the first 20 minutes or so of the hunt. When I got home I worked
Jim quickly, he was 339, but quickly climbed to 559, peaked at 579, and

was 559 when he signed off at 0400Z. The gn was a nice touch Jim. The hunters were few and far between for the last 40 minutes or so, even though Jim still had a nice signal here. Where are the night owls??

Calls heard here in NM; W6SU, W03B, WE6W, ?0J (I never get your prefix, but you always have a nice signal here from TX), AB7TK, W0CLR, W5FN, W2PFS, KK5KU, NQ7X (very weak), AB7ST, K06KA, W6BAB, N7MFB, K5F0, NI0A, VE7CQK, K3NLT, W6SIY, K6YR, AA0ZZ, K0EVZ, KA5T, AF9T, N3YSI(very weak), VE5WF, and KV2X. I heard Jim work AB7TT, W7QQQ, and another Az station, but I could not hear the sQRPion end of the QSO. I guess the skip had gone long :>). Jim called lots of CQs after 0320, with few takers. It was unfortunate as he had a nice signal in here most of that time. I was tempted to work him twice :>), just like the old days.

The popularity of these "calls heard" postings amazes me. Many people told me they rely on them. A caveat is probably in order. The calls heard are not gathered scientifically, so if I don't post your call it does not mean you did not have a good signal here; conversely I post lots of weak calls as they are more of a challenge for me to copy. I also may take some time out to eat dinner or spend time with my family, so they are not always a result of continuous monitoring. A good opening could come and go without me copying any calls. One thing is clear; the strongest signals do not always get answered first, and there are some calls that are consistently answered quickly no matter what their signal strength. There are also some signals that are of consistent high quality. I can recognize some signals before they ID.

See you next week. - Duffey KK6MC/5

James R. Duffey KK6MC/5 DM65
30 Casa Loma Road
Cedar Crest NM 87008

Date: Tue, 28 Oct 1997 19:56:31 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: "Michael A. Gipe" <mgipe@reliablemeters.com>
Cc: QRP-L list server <qrp-l@Lehigh.EDU>, Jack Bryant <jbryant@math.tamu.edu>, Stan Goldstein <stan@cruzio.com>, Chuck Adams <adams@chuck.dallas.sgi.com>, "Michael A. Gipe" <K1MG@amsat.org>
Subject: [29826] Re: Fox: Aluminum can!
Message-ID: <Pine.SUN.3.90.971028195435.26943A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 28 Oct 1997, Michael A. Gipe wrote:

> Just placed my order for 46 more pounds of aluminum.

Hmmm, 46 lbs.....the EF-240230 is 46 lbs....

The C4SXL is 48 lbs.....

Mmmmmmmmm, 30 & 40, eh?

>

> Bring on those foxes!

It do make a diff!!

Congratulations!

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 29 Oct 1997 04:40:18 -0500
From: "Rich Dailey, KA8OKH" <ka8okh@som-uky.campus.mci.net>
To: qrp-l@Lehigh.EDU
Subject: [29827] FOX: VE7 - Ouch!
Message-ID: <3.0.16.19971029043700.2fdf4e7e@som-uky.campus.mci.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

> 40CW 24-Oct-97 01:19 27 KA8OKU 559 559 RICH 933 OH

It was me! Really it was! See my name? My qrp-l #? Almost see
my call?

Does it count? It was me... honest!

72... KA8OKH KY RICH 933
KA8 Old Kentucky Home

Rich Dailey, KA8OKH <ka8okh@som-uky.campus.mci.net>

The KA8OKH / KB4NPI Web - <http://www.qsl.net/ka8okh>

Date: Wed, 29 Oct 1997 04:59:09 +0000
From: SEAB&SHARON LYON <SSLYON@worldnet.att.net>
To: qrp-l@Lehigh.EDU
Subject: [29828] -Anybody hear me in Fox Hunt?
Message-ID: <19971029045907.AAA14276@LOCALNAME>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Well... THAT was singularly frustrating! N0UR was 589 (QSB) all nite and I called 'til I was hoarse but no ans. Finally worked K8CV after hunt just to see if I was getting out. Anyone else hear me?... sound "normal"? All comments appreciated... trying to trouble-shoot. 72 =s=

Seab Lyon, AA1MY, Bethel, CT, USA
FN-31-HJ; ARRL; QCWA; ACRI#9253;
QRP-L#574; NEQRP#511; Pres., C.A.R.A.:
<http://www.danbury.lib.ct.us/org/cara>

Date: Tue, 28 Oct 1997 21:21:16 -0800
From: Monte Stark <ku7y@sage.dri.edu>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [29829] Fox
Message-ID: <3456C7CC.E80@sage.dri.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Darn,

Forgot all about the Fox tonight!

Waaaaaaaaa!!!!

--

73, Ron

NRA Life-----Ex W6JX0, DL4RF, N7CRV-----SOWP #5545-M

QRP QRCI #8829----NorCal #330----QRP-L #17-----ARS #49
AR QRP #150-----DM09cg-----New Washoe City, NV

Date: Wed, 29 Oct 1997 00:31:19 -0500
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
To: "INTERNET:SSLYON@worldnet.att.net" <SSLYON@worldnet.att.net>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>,
QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [29830] -Anybody hear me in Fox Hunt?
Message-ID: <199710290032_MC2-257D-BFF2@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Seab:

Well he finally got clear up to 119 but only during the last 4 minutes!
At that point I called him several times...but to no avail. Of course
we are way too close together at only 85 miles apart. But all the other
FOX Nabbers managed to bag him, so hopefully we will still be running
well.

So...there are more hunts coming. Let's go get them. Better luck another
time.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/29/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 00:31:24 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:jamesd1@flash.net" <jamesd1@flash.net>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>

Subject: [29831] NOUR in NM, Calls Heard
Message-ID: <199710290034_MC2-2586-F350@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Duffey:

Well glad my signal was going out somewhere tonight! Unfortunately it could not get the 85 miles from Rochester, MN, to Minneapolis. MN (about 85 miles away--just too close).

BTW Jim finally came out of hiding during the last 4 minutes. He actually came up to a respectable 119. Oh well!

Please keep on posting this valuable post. It is helpful to check my signal.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/28/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 00:37:42 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:ku7y@sage.dri.edu" <ku7y@sage.dri.edu>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group
<QRP-L@Lehigh.EDU>
Subject: [29831] Fox
Message-ID: <199710290041_MC2-2586-F43B@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Ron:

Well I remembered all about it. But might as well have forgotten this totally forgettable hunt! We were just too close together. I never really heard him clearly until the last 4 minutes. At that time he actually rose to a respectable 119 here (about 85 miles away). Oh well.

So, let's go for the rest of 'em! Good luck, Ron. Every time I hear you, your signal is FB.

72/73,

--Doc/K0EVZ qrp-1 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/28/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 01:04:43 -0500
From: Dale Scott <dcscott@us.ibm.com>
To: <qrp-1@Lehigh.EDU>
Subject: [29831] Re: Zero Beat (long question)
Message-ID: <50302000181226100000002L002*@MHS>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

----- Forwarded by Dale Scott/Seattle/IBM on 10-28-97 =
09:51 PM

>I just finished reading this topic on a Web page. Basically you tune =
the
>receiving station to the point where there is no sound. At that point=
you
>have done the "zero beat" and then tune up or down by the offset frequ=

ency.

>An example would be like a signal zero beated at 7040 and frequency set at

>7040.6 to hear the tone. Wish I could find the Web page reference, the

>author definitely did a much better job at explaining the procedure.

>

>72

>

>Ron

I just happened to print that web site out just prior to leaving work this

evening. The URL is <http://www.dancris.com/~ki7mn>.

72/73

Dale/kc7khd

=

Date: Tue, 28 Oct 1997 22:20:24 -0800

From: amarriot@direct.ca (Albert Daniel Marriott)

To: qrp-l@Lehigh.EDU

Subject: [29831] QRP-L 15 Xcvr: Help!!

Message-ID: <E0xQSB5-0007Mh-00@jack.direct.ca>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Hello All;

I received the qrp-15 xcvr board from FAR circuits today. It is not silkscreened - thought it was. OK, I was wrong; and I don't want to appear to be a techno-wimp; BUT, if anyone has a component layout which came with the Radiokit versions of the above, I would REALLY (\$\$) appreciate it. It does not have to be the 15 meter version (although I prefer it). The CQ article reprint that I have does not show the component layout with accuracy, and the potential for error is enormous.

Anyways, if someone could help, I would gratefully acknowledge with photocopy expenses, mailing expenses, plus... Thanks.

73

Dan VE7CTN

amarriot@direct.ca

Date: Wed, 29 Oct 1997 10:51:48 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: pharden@aoc.nrao.edu
Cc: qrp-1@Lehigh.EDU
Subject: [29832] Re: NorCal 2222 Building Contest
Message-ID: <199710291051.KAA25907@chuck.dallas.sgi.com>

Now Paul,

A good QRPer can spot at 2N2222X a mile away and tell you who made it, the year in which it was made on which assembly line, and at which table at which fleamarket where it was bought, who sold it and for how much. Don't need no markings either. Scrape the paint all you want, even put on a coat of the NA5N/K5FO patented paint job in Sail Blue (RUST-OLEUM color a favorite of K5FO).

And a great QRPer can touch the case and tell you the gain within 5% and whether it was raining at the fleamarket when it was sold.

And isn't there an article floating around on how to parallel a few of them to get 100W out?

Let the games begin.

: -)

Heck, find the paint remover gun and reconfigure the gates. PNP, NPN, it don't matter. ; -)

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Wed, 29 Oct 1997 06:10:01 -0500
From: Jeff & Bea Hahn <jhahn@bellatlantic.net>
To: qrp-1@Lehigh.EDU
Subject: [29833] ICOM Rigs - QRP

Message-ID: <34571989.512D@bellatlantic.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Several weeks ago there were postings about how to cut the output of an ICOM rig to QRP levels. I asked the Technical Information Section at the ARRL if there were any articles in QST on the issue and they directed me to the Feb., 1993 issue, Page 75, Hints and Kinks, Operate QRP with an easy to build Attenuator.

Unfortunately I don't have a copy of that issue. Is there someone who would be willing to send me a copy of the article? Naturally, I would provide a SASE and cost of copying.

Thanks.

Jeff Hahn, KR4YS
11009 Warwickshire Drive
Great Falls, VA 22066

Date: Wed, 29 Oct 1997 06:10:17 -0500
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [29834] FS: 32MB Ram
Message-ID: <01bce45b\$3d602800\$2e5445c6@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello fellow QRPers,

I figure I would post this here, maybe someone could use this. I purchased more Ram than my machine can use.

32MB Ram 72 Pin 70NS W/O Parity \$125

Hope to hear everyone on the Nov SS CW this weekend.

73, Good DXing & QRPing
Ron de WB3AAL
E-mail: wb3aal@talon.net
BBS: WB3AAL @ WB3FYL.#BER.PA.USA.NA
QRP # 5318 G-QRP # 3031

10-10 # 13173

QRP-L # 1099

Date: Wed, 29 Oct 1997 07:06:16 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: Michael Pupeza <mpupeza@csolve.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>, cw@qth.net
Subject: [29835] CW/SSB = 13 db, by mathematics
Message-ID: <Pine.LNX.3.95.971029065328.19463E-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Assume you have a constant signal power of "k," in any mode, at the receiver (the transmitter on the other end puts out a constant power).

Assume you have a noise power that's a constant level "m" at the receiver. In other words, the same noise level exists at all frequencies within the range you're receiving.

CW: 100 Hz @ 20 wpm. Minimum bandwidth for receiver = 100 Hz.

Signal power = k, noise power = $m \times 100 \text{ Hz}$

Signal/noise = $k / 100m$

SSB: 2000-3000 Hz. Minimum practical receiver BW = 2,000 Hz.

Signal power = k, noise power = $m \times 2000 \text{ Hz}$.

Signal/noise = $k / 2000m$

AM: 6000 Hz. Minimum practical receiver BW = 6,000 Hz.

Signal power = k, noise power = $m \times 6000 \text{ Hz}$.

Signal/noise = $k / 6000m$

So what does this mean? Mathematically, through the ability to use progressively narrow filtering at the receiver, you can reduce the amount of noise power entering the receiver's IF stages, making the signal you want to receive stand out from the "other stuff," which we'll call noise.

How much improvement is achievable?

CW vs SSB - $k/100m$ vs. $k/2000m$

gain = 10 log (P2/P1) = 10 log 2000/100

db gain (CW vs. SSB) = 13 db

CW vs AM - k/100m vs. k/6000m -

gain = 10 log (P2/P1) = 10 log 6000/100

db gain (CW vs. AM) = 17 db

(and of course, it's probably higher because 50% of signal is spent in non-information-bearing carrier)

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Wed, 29 Oct 1997 08:05:40 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Cc: forsale-swap@qth.net
Subject: [29836] Wanted - one Autek RF-1 Antenna Analyst, or comments about...
Message-ID: <Pine.LNX.3.95.971029080440.20010B-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Anyone played with one of these things?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Wed, 29 Oct 1997 08:46:11 -0500
From: Zack Lau <zlau@arrl.org>
To: qrp-l@Lehigh.EDU
Subject: [29837] Re: CW/SSB=18db\! I doubt it\!
Message-ID: <34573E23.437F@arrl.org>

Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Perhaps there is a fair amount of redundancy in an SSB signal that allows talented operators to effectively reduce the bandwidth. I've worked guys on DX-peditions who recognized my voice and guessed the callsign :-)

Zack W1VT

BTW--The rectangular bandwidth calculations have a flaw--you really ought to cut out the spectral gap in voices, or even better, do the integration to get the real bandwidth.

Date: Wed, 29 Oct 1997 08:47:02 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:jhahn@bellatlantic.net" <jhahn@bellatlantic.net>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [29838] ICOM Rigs - QRP
Message-ID: <199710290850_MC2-2588-CE36@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Jeff:

I also need this information. Therefore, could you forward to me copies of whatever information you receive? This would be a great favour!
Thanks.

72/73,
--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/28/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Auttek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 08:51:51 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: Stan <stan@cruzio.com>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>, QRP-L Discussion Group
<QRP-L@Lehigh.EDU>
Subject: [29839] Re: Fox
Message-ID: <199710290857_MC2-258C-6DE5@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Stan:

Nope was unable to get it done. Nuts! Had hoped my TNT/2 Windom at only 25 feet might get it done. No luck. BUE...will have one up before next time!

BTW, also didn't hear the N/T+ FOX at all. Wonder whether was in there. Have worked him before and he had a good signal.

Thanks for writing with the good advice re NVIS. And good luck! You always have a very big signal during FOXhunts and contests.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/28/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 08:09:50 -0600
From: Jim <kj5tf@mctc.com>
To: qrp-l@Lehigh.EDU
Subject: [29840] QRP flashlight
Message-ID: <345743AE.7D9A@mctc.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I ordered a few 18,000-36,000 mcd LED's what value resistor do I need between it and the battery? Thanks, de Jim

Date: Wed, 29 Oct 1997 09:12:58 -0500 (EST)
From: Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
To: 70511.3041@compuserve.com, qrp-1@Lehigh.EDU
Subject: [29841] RE: Help: NVIS antenna info?
Message-ID: <C17ZXBZD6EKH*/R=FDADR/R=A1/U=PXX4/@MHS>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Rule of thumb, a dipole lower than 1/4 wavelength from ground causes more energy to be vertical. Thus, the lower you get (I would guess to a certain point) the more energy goes vertical.

My 80-meter dipole is about 25 to 30' up, 1/4 wavelength for 80-meters is 20 meters, figure a bit over 60 ft, thus it's about 1/8 wavelength. It works very well for local 80-meter QSO's up to New England, and down to Florida from here in Maryland.

The article you are looking for was in QST: January 1995, Pg 39.

good-luck, 73 & 72 de KE3FL
Phil K

Date: Wed, 29 Oct 1997 07:09:14 MST
From: kv7g@juno.com
To: ham@w3eax.umd.edu
Cc: qrp-1@Lehigh.EDU
Subject: [29842] Re: Wanted - one Autek RF-1 Antenna Analyst, or comments about...
Message-ID: <19971029.071125.14574.0.kv7g@juno.com>

Scott

I have used one. It is probably OK, but the tuning is very, very critical and hard to get tuned to the frequency that you want to read on the meter. I prefer the MFJ - 259. Although it is larger, it is much easier to use and I believe as accurate. It also has a built in frequency

counter and functions up about 150mhz. Other people may not agree, but that is my opinion.

Bud - KV7G

On Wed, 29 Oct 1997 08:05:40 -0500 (EST) "Scott Rosenfeld [NF3I]"
<ham@w3eax.umd.edu> writes:

>Anyone played with one of these things?

>

>* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *

>* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *

>* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *

>*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

>

>

>

Date: Wed, 29 Oct 1997 09:19:11 -0500
From: "Wilford D. Lindsey" <70511.3041@CompuServe.COM>
To: "INTERNET:dcscott@us.ibm.com" <dcscott@us.ibm.com>
Cc: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>
Subject: [29843] Re: Zero Beat (long question)
Message-ID: <199710290920_MC2-258D-8704@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Dale:

This URL would be much easier to reach....if you put *forward* slashes rather than backward slashes! <VBG>. Thanks for it...and I will be looking at it later today.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqc 414 ARS 311 FISTS 3868 mn-qrp 19
nj-qrp 69 ak/qrp 139 AR QRP 73 ARCI 9398 ARRL WAS 48/40
DXCC 55/42 <>< FOX Total 10/28/97 10 of 10 + 7 of 8 N/T+ FOX.

Icom 751A Omni V Sierra Argo 515 Norcal 40a SW-40 49er 38S
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP TNT/2 Windom
SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible, but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 09:34:35 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@Lehigh.EDU>
Subject: [29844] Just how does a mixer work, mathematically?
Message-ID: <Pine.LNX.3.95.971029093135.20453G-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sure, I can see how you get two frequencies injected, but exactly how does the math explaining the mixer work? How does IMD come into play?

I remember back to mixers in my communications class in college.

We defined it as a "black box" that served as a nonlinear amplifier, which annoyed me. I think many of us could stand, as builders/etc., to understand this fundamental part of RF circuitry better, rather than just "knowing it works."

Thanks! Can anyone help?

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *
* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

Date: Wed, 29 Oct 1997 08:09:10 -0600
From: "Claton Cadmus" <aplitech@spacestar.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29845] Re: Pixie2 Files Sent!
Message-ID: <199710291427.IAA04953@webster.spacestar.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi, I received the Pixie file from Frank. (Many thanks Frank) I have Win95 here and Paint Shop Pro and can't seem to convert or display this file. If you are running windows and have been able to do this would you please post a note with details. I assume there maybe other WinXX users that would like the info too.

Thanks,

73 de KA0GKC Claton Cadmus
E-mail cla@spacestar.net
If you live in Minnesota check out this webpage!
<http://www.qsl.net/mnqrp>

Date: Wed, 29 Oct 1997 09:27:02 -0500 (EST)
From: Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
To: qrp-1@Lehigh.EDU
Subject: [29846] RE: Help: NVIS antenna info?
Message-ID: <C92ZXBZDIF1H*/R=FDADR/R=A1/U=PXX4/@MHS>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Rule of thumb, a dipole lower than 1/4 wavelength from ground causes more energy to be vertical. Thus, the lower you get (I would guess to a certain point) the more energy goes vertical.

My 80-meter dipole is about 25 to 30' up, 1/4 wavelength for 80-meters is 20 meters, figure a bit over 60 ft, thus it's about 1/8 wavelength. It works very well for local 80-meter QSO's up to New England, and down to Florida from here in Maryland.

The article you are looking for was in QST: January 1995, Pg 39.

good-luck, 73 & 72 de KE3FL
Phil K

(A second time because it failed, or said it did, somewhere along the line.)

Date: Wed, 29 Oct 1997 09:41:03 -0500
From: mikemo@ibm.net
To: Jim Eshleman <lujce@hooch.cc.Lehigh.EDU>
Cc: qrp-1@Lehigh.EDU
Subject: [29847] Re: N/T Fox?
Message-ID: <34574AFF.65E9@ibm.net>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Jim Eshleman wrote:

>
> Hi Mike,
>
> Was wondering if you forgot to be on-the-air last nite, or am I reading
> the schedule wrong (always a possibility :-) Didn't see any QRP-L post
> from you and didn't hear you on the air.

Well, my apologies to all. I've been sick with the Flu since Friday. I completely forgot about last nights N/T+ fox hunt until I got this email from Jim.

The good news is that my dipole survived Mondays tornado.

I'll make sure I post a reminder to the list for the next try (2 weeks).
Mike (not sick enough to not be embarrassed) Maiorana
kf4trd

Date: Wed, 29 Oct 1997 09:42:37 -0500 (EST)
From: Philip Karras 827-2956 <PXX4@CDRH.FDA.GOV>
To: qrp-l@Lehigh.EDU, JCoote@aol.com
Subject: [29848] RE: Help: NVIS antenna info?
Message-ID: <C81ZXBZDW55U*/R=FDADR/R=A1/U=PXX4/@MHS>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Rule of thumb, a dipole lower than 1/4 wavelength from ground causes more energy to be vertical. Thus, the lower you get (I would guess to a certain point) the more energy goes vertical.

My 80-meter dipole is about 25 to 30' up, 1/4 wavelength for 80-meters is 20 meters, figure a bit over 60 ft, thus it's about 1/8 wavelength. It works very well for local 80-meter QSO's up to New England, and down to Florida from here in Maryland.

The article you are looking for was in QST: January 1995, Pg 39.

good-luck, 73 & 72 de KE3FL
Phil K

(I keep trying to post to qrp-l & it keeps coming back, could you try for

me if you don't see it on the group? thanks. PK)

Date: Wed, 29 Oct 1997 08:01:04 -0700
From: Andy Fox <foxes@theriver.com>
To: qrp-l@Lehigh.EDU
Subject: [29849] Thanks for Zero Beat info
Message-ID: <34574FB0.5C8A@theriver.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello again,

Thanks to all for the responses to my query about zero beat. I got about ten of them :-)

One of the responses pointed me to the following web page, where there is an excellent tutorial - "A Beginner's Guide to Making CW Contacts."

<http://www.dancris.com/~ki7mn>

Thanks again.

73 de KK7HV

--

Andy Fox
foxes@theriver.com

Date: Wed, 29 Oct 1997 10:02:28 -0500 (EST)
From: n4js@amsat.org
To: SSLYON@worldnet.att.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29850] RE: -Anybody hear me in Fox Hunt?
Message-ID: <XFMail.971029100516.n4js@amsat.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 8bit
MIME-Version: 1.0

On 29-Oct-97 SEAB&SHARON LYON typed:

>Well... THAT was singularly frustrating! N0UR was 589 (QSB) all
>nite and I called 'til I was hoarse but no ans. Finally worked
>K8CV after hunt just to see if I was getting out. Anyone else hear
>me?... sound "normal"? All comments appreciated... trying to
>trouble-shoot. 72 =s=
>

Don't feel bad. I thought this would be an EASY one. Heard Jim 579-589 from
0215-0245. Called several times. Even switched to the ARG0556 from the OHR400,
to see if that would help...no go. Used both the 180' Zepp and the dipole. Jim
faded at 0245, and never came back up. In fact, most signals faded at that
time, including the pack.

Sent at 10:05:15 on 29-Oct-97

John L. Sielke n4js@amsat.org n4js@pobox.com
n4js@qsl.net NJ Grid:FM29LN
http://www.qsl.net/n4js NJ-QRP #57 QRP-L #884
QRP-ARCI CQC #443 CQrp #50 AKQrp ARQrp
NE-QRP #507 G-QRP #9544 NorCal #1989 QCWA FISTS #2781 ARS #243

Date: Wed, 29 Oct 1997 07:11:14 -0800
From: Steve Miller <kg7pv@teleport.com>
To: qrp-l@Lehigh.EDU
Subject: [29851] Re: QRP flashlight
Message-ID: <3.0.3.32.19971029071114.00691b9c@mail.teleport.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:09 AM 10/29/97 -0600, you wrote:

>I ordered a few 18,000-36,000 mcd LED's what value resistor do I need
>between it and the battery? Thanks, de Jim
>
>

>From NA5N's book: Setting LED Current $R = (V_{cc} - V_f) / I_f$ where R is the
resistor, V_{cc} is your supply voltage, V_f is the LED voltage (probably 2V,
check the specs) and I_f is the current desired.

So an example: $+12V - 2V / 10mA = 1000$ for a standard LED. For my
flashlites I used the 12000 mcd LED from RS(#276-206 and the # 276-295).

The specs list it as 1.9 volts with a 50 mA max current and my two

batteries put out 3V. So $+3V - 1.9V / 45mA = 24.4$ for R. Any value near that will work for the LED light but the higher the current the faster the batteries go down.

A 12V example: $+12V - 1.9V / 45mA = 224.4$

(So Paul, did I get it right :-) 73

Steve Miller kg7pv@teleport.com Portland, OR
Norcal #308 QRP-L #109 ARCI #9230

Date: Wed, 29 Oct 1997 10:18:25 -0500
From: "W. D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:PXX4@CDRH.FDA.GOV" <PXX4@CDRH.FDA.GOV>
Cc: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [29852] RE: Help: NVIS antenna info?
Message-ID: <199710291021_MC2-258E-53F3@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Phil:

Many thanks for this reply. I still did not manage to get a NVIS antenna up, despite concerted plans to do so. It might have made the difference in snagging Jim N0UR during last night's hunt. Jim is only about 85 miles north of my QTH.

Settled for my TNT/2 Windom and the new GAP--but no success. Of course we will never know whether installing a NVIS would have worked last evening. *WILL* have one up (down?!) before Jim has his second run, though!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><
FOX total 10/28/97 = 10 of 10 & 7 of 8 N/T+ FOXes

Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2
Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

Date: Wed, 29 Oct 1997 10:14:39 -0500
From: "W. D. Lindsey" <70511.3041@CompuServe.COM>
To: "INTERNET:mikemo@ibm.net" <mikemo@ibm.net>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>, QRP-L Discussion Group
<QRP-L@Lehigh.EDU>
Subject: [29852] Re: N/T Fox?
Message-ID: <199710291017_MC2-258E-D931@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Mike:

Well this will only make us FOXhunters even hungrier for some fresh meat!
I was hoping to at least snag you last evening. Knew the regular FOX would
likely be unattainable at my QTH, which is only 85 miles or so from Jim
NOUR. Sure enough, I never really could hear him clearly until the last 4
minutes....when he suddenly came in loud and clear at RST 119!

Anyway, hang in there and we'll see you soon. And keep up the excellent
operating techniques!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><
FOX total 10/28/97 = 10 of 10 & 7 of 8 N/T+ FOXes

Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2
Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

Date: Wed, 29 Oct 1997 10:31:28 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: kj5tf@mctc.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29852] Re: QRP flashlight
Message-ID: <345756D0.590E@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Jim wrote:

>

> I ordered a few 18,000-36,000 mcd LED's what value resistor do I need
> between it and the battery? Thanks, de Jim

Well.....

Offhand, I would say that it depends on the current rating of the LED's
and the battery voltage.

Some German guy named Ohm had this one figured out along time ago.

Maybe we can get him to post to the list?

Date: Wed, 29 Oct 1997 09:44:00 -0600
From: "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
To: "'QRL-L'" <qrp-l@Lehigh.EDU>
Subject: [29853] Norcal 2222 Design Contest
Message-ID: <199710291545.JAA13780@inetgw.guidant.com>

The Norcal 2222 design contest is a great idea. I was wondering if the
some or all of the entries (schematic, write up, and performance
observations) can be scanned in and put on the Norcal page after the
contest is over.

It would be fun and interesting to see each entry, study the design and
implementation, and marvel (yes, marvel) at the creativity or uniqueness
of each design. A good (best) learning experience for us who would like
to learn how to design a transceiver, transmitter, or receiver.

There is really something for everybody here: least transistor count
(and still actually work), reasonable feature and performance with
nominal transistor count, the best performance with the least
transistors, the most features with least transistors, the most features
and performance regardless of count (22 or less), etc..

One list member commented that he wished that PNPs could be used also.
Maybe something for the next Norcal contest, a common NPN and PNP
transistor design contest.

72,

Scott WA9WFA St Paul MN
ARCI 7299

Date: Wed, 29 Oct 97 10:27:21 PST
From: gregoire@endor.com
To: Low power amateur radio discussion <qrp-1@Lehigh.EDU>
Subject: [29854] FOR SALE:TEN TEC ARGO 556
Message-ID: <Chameleon.971029104631.GREGOIRE@Gregoire.endor.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hello Gang,

Three full featured all band rigs is too many for me to own at this point, so I am presenting this one for sale.

Description:

Ten Tec Argo 556 HF radio.

7 band modules, 12 meters, and 160 meters are the missing ones.

1 Ten Tec microphone, (came with the rig)

1 noise blanker, (not installed).

The rig is a QRP radio. Wattage out ranges from a low of 1 watt to a high of 5 or 6 watts.

The rig and band modules are in like new condition. It has never smoked nor have I.

The factory price for the stuff is:

\$722.53.

I want \$470. for it, that's a 35% discount from the factory price.

You pay shipping. UPS ground shipping should be cheap. I'll find out how much it will cost for your location and let you know. You can include the cost of shipping with the check for the rig.

I'll sell it to the first one who crosses my palm with silver. Send a cashier check.

de AA1IK, Time the accursed enemy of man,
 cursed youth for going to slow
Ernie Gregoire and by the old for going to fast.

R.R. 1, Box 221,
South Rd. Fists # 2644, ARCI # 9500
Canaan, NH. 03741 QRP-L # 95, Fly fisher & tier,
 Promise Keeper.

E-mail address: gregoire@endor.com

packet address: AA1IK@WA1WOK.FN43FE.NH.USA.NA

10/29/97 10:27:21

Date: Wed, 29 Oct 1997 09:57:00 -0600
From: "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
To: "'QRP-L'" <qrp-l@Lehigh.EDU>
Subject: [29855] Norcal 2222 Design Contest Thoughts
Message-ID: <199710291558.JAA16946@inetgw.guidant.com>

The Norcal 2222 design contest is a great idea. I was wondering if the some or all of the entries (schematic, write up, and performance observations) can be scanned in and put on the Norcal page after the contest is over.

It would be fun and interesting to see each entry, study the design and implementation, and marvel (yes, marvel) at the creativity or uniqueness of each design. A good (best) learning experience for us who would like to learn how to design a transceiver, transmitter, or receiver. I already sent this but it came back as undeliverable, so will try once more.

There is really something for everybody here: least transistor count (and still actually work), reasonable feature and performance with nominal transistor count, the best performance with the least transistors, the most features with least transistors, the most features

and performance regardless of count (22 or less), etc..

One list member commented that he wished that PNPs could be used also.
Maybe something for the next Norcal contest, a common NPN and PNP transistor design contest.

72,

Scott WA9WFA St Paul MN
ARCI 7299

Date: Wed, 29 Oct 1997 12:17:14 -0500
From: fmathews@norfolk.infi.net (Frank Matthews)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29856] Unfriendly Pixie File :-(
Message-ID: <v01530500b07d1e91c374@[208.131.170.203]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Fellow QRP-Lers

I'm sorry that my Pixie revision file has not made it to alot of you in a format you could use. It was created with MacDraw Pro 1.5v3. I do not have the means of converting it to a JPEG or GIF as most of you may need. If anyone out there has been successful or has the ability to convert this file to a "more friendly" format...I would appreciate the assistance. I will still be glad to send a laser copy to you via a SASE.

Mail To: Frank Matthews
4260 Meadow Wood Drive
Chesapeake, VA 23321-4231

Sorry it didn't work the "high tech" way.

Frank

Frank Matthews
Technology Education Department
Oscar F. Smith High School
1994 Tiger Drive
Chesapeake, VA 23320
(757) 548-0696 Ext. 51
Email/fmathews@norfolk.infi.net

Date: Wed, 29 Oct 1997 11:07:13 -0500
From: "HB Electronics (Bob Berlyn)" <hb_elec@ids.net>
To: qrp-L@Lehigh.EDU
Subject: [29857] RE: NorCal 2222 Building Contest
Message-ID: <3.0.1.32.19971029110713.006a3a6c@mail.ids.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doug, and all:

What a great idea! I am sure we will all be surprised and amazed by some great designs and I am looking forward to it.

Now where did I put all those books with the 2N2222 designs. I'm sure I put them somewhere so I wouldn't lose them.....

72's es GL to all
Bob N1PWU QRP-L#161 East Greenwich, RI

HB Electronics
E-Mail: hb_elec@ids.net
On The Web: <http://users.ids.net/~hb_elec/>

Date: Wed, 29 Oct 1997 11:07:44 -0500 (EST)
From: NilsBull@aol.com
To: QRP-L@Lehigh.EDU
Subject: [29858] Need schemo for Hallicrafters S-53A
Message-ID: <971029110744_1600984330@mrin39>

Amigos,

The Hallicrafters S-53A that a co-worker bestowed on me has gone deaf. I suspect lots of badgers, among many all those wax-filled caps that seem to adorn the innards of pre-1970s equipment. Them and one of the 5Y3 tubes.

I'd like to overhaul this beast and get it to hearing stuff again. And replacin' them rectifyin' tubes with some diodes of the appropriate muster.

But ain't got the schematic for the radio. So . . .

Anyone got a schemo for the S-53A? And yes, I have looked around the web and have, so far, found no one admitting to having the radio or its literature. Maybe I ain't lookin' in the right badger box.

And one more thing: Now the badgers have a home page! They're at

<http://telelink.net/~badger/millist/>

It's a military radio site with all kindsa info and pinchers and everything. Even for badgers it ain't that bad, you know?

73

Nils

WB8IJN &c

. . . readin' all this QRP history had got me thinkin' about puttin' a cheapo-tube station on the air . . . but then I remembered . . . I've got the Viking Ranger and the CIA spy transmitter & more one-band radios than I need . . . and now badgers too.

Date: Wed, 29 Oct 97 8:07:01 PST
From: Paul Erickson <paul1@wizard.ucs.sfu.ca>
To: adams@chuck.dallas.sgi.com (chuck adams)
Cc: qrp-1@Lehigh.EDU (qrp)
Subject: [29859] Sub Arctic Fox log final edition
Message-ID: <9710291607.AA06006@wizard.ucs.sfu.ca>

Hi Chuck,

Here is the final one. Sorry for the problems. The computer glitches at the beginning caused me greef.

cheers, Paul

VE7CQK

email: paul1@wizard.ucs.sfu.ca

1997 FOX LOG - VE7CQK

Band	Date	Time	QSO#	Call	worked	Sent	Rcvd	Name	Qth	Mults
----	----	----	----	-----	-----	----	----	-----	----	-----
40CW	24-Oct-97	00:30	1	W5TFB		559	559	JACK 282	TX	1
40CW	24-Oct-97	00:32	2	AB7TK		559	559	RANDY 102	ID	1
40CW	24-Oct-97	00:33	3	KU7Y	*	559	559	NM RON 17	NM	1

40CW	24-Oct-97	00:36	4	VE6GK		599	559	RICK 165	AB	1
40CW	24-Oct-97	00:38	5	N6XU	*	559	569	STAN 66	CA	1
40CW	24-Oct-97	00:39	6	AB7ST	*	559	559	BOB 129	UT	1
40CW	24-Oct-97	00:40	7	K2VCO	*	559	559	VIC 725	CA	1
40CW	24-Oct-97	00:41	8	N0HJ		559	579	JOHN 219	CO	1
40CW	24-Oct-97	00:42	9	AC6LA		559	559	DAN 515	CA	1
40CW	24-Oct-97	00:44	10	KK6MC	*	559	559	DUFF 411	NM	1
40CW	24-Oct-97	00:46	11	AA0ZZ	*	559	559	CRAIG 1238	MN	1
40CW	24-Oct-97	00:47	12	N7CTJ	*	559	559	DICK 843	NV	1
40CW	24-Oct-97	00:49	13	N0TFI	*	559	559	JEFF 1232	CO	1
40CW	24-Oct-97	00:51	14	K5OI		559	559	TIM 73	NM	1
40CW	24-Oct-97	00:54	15	AB7TT		559	559	JOE 5W	AZ	1
40CW	24-Oct-97	00:58	16	K7DBV		559	559	GENE 201	OR	1
40CW	24-Oct-97	01:00	17	VE5RC		559	339	BRUCE 886	SK	1
40CW	24-Oct-97	01:02	18	K0EVZ	*	559	579	DOC 861	MN	1
40CW	24-Oct-97	01:05	19	N5JI		559	559	DICK 1054	TX	1
40CW	24-Oct-97	01:06	20	N7VE		559	559	DAN 5W	AZ	1
40CW	24-Oct-97	01:07	21	NQ7X	*	559	559	FLOYD 343	AZ	1
40CW	24-Oct-97	01:10	22	AB7MY	*	559	559	GARY 571	AZ	1
40CW	24-Oct-97	01:11	23	K6VNX		559	559	ARLEN 5W	CA	1
40CW	24-Oct-97	01:12	24	K1MG		559	559	MIKE 614	CA	1
40CW	24-Oct-97	01:14	25	W6SU	*	559	599	JOHN 48	CA	1
40CW	24-Oct-97	01:15	26	N6VZ		559	559	GARY 919	CA	1
40CW	24-Oct-97	01:16	27	W7QQQ		559	559	JACK 1210	AZ	1
40CW	24-Oct-97	01:19	28	KA8OKH		559	559	RICH 933	OH	1
40CW	24-Oct-97	01:21	29	N7KT	*	559	559	ROGER 62	AZ	1
40CW	24-Oct-97	01:23	30	K06KA	*	559	559	ROB 176	CA	1
40CW	24-Oct-97	01:25	31	WE6W		559	569	ED 1068	CA	1
40CW	24-Oct-97	01:27	32	W7SSM		559	559	JOHN 1048	CA	1
40CW	24-Oct-97	01:29	33	W9UQB	*	559	559	MIKE 413	AZ	1
40CW	24-Oct-97	01:31	34	AK1P	*	539	569	PAUL 284	CA	1
40CW	24-Oct-97	01:34	35	WB0T		559	559	JERRY 1268	IOWA	1
40CW	24-Oct-97	01:36	36	W5SB		559	559	BILL 1279	TX	1
40CW	24-Oct-97	01:39	37	W7JDZ		559	599	MAC 2W	ID	1
40CW	24-Oct-97	01:46	38	K8DD	*	559	559	HANK 246	MI	1
40CW	24-Oct-97	01:48	39	W9KVF		559	569	MIKE 1204	IL	1
40CW	24-Oct-97	01:51	40	KB0PTE		559	559	JERRY 1058	MO	1
40CW	24-Oct-97	01:55	41	W1LP/MM		539	599	CLINT 869	MA	1
40CW	24-Oct-97	01:58	42	W6BAB		559	559	HARVE 5W	CA	1
40CW	24-Oct-97	02:01	43	K5NZ		549	559	MIKE 5W	TX	1
40CW	24-Oct-97	02:03	44	KJ3V		559	599	LYNN 1227	AL	1
40CW	24-Oct-97	02:05	45	W5FN		559	559	TIM 586	TX	1
40CW	24-Oct-97	02:08	46	K5LE	*	559	559	JIM 534	CA	1
40CW	24-Oct-97	02:10	47	W0CH	*	599	559	DAVID 618	MO	1
40CW	24-Oct-97	02:11	48	W00Q	*	559	559	MARTY 793	CO	1
40CW	24-Oct-97	02:14	49	K5WO	*	559	559	BOB 273	TX	1
40CW	24-Oct-97	02:15	50	K10J	*	559	559	OJ 732	TX	1
40CW	24-Oct-97	02:18	51	W6EV		559	599	FRANK 1563	CA	1

40CW	24-Oct-97	02:20	52	K5UP	*	559	559	GLEN	21	OK	1
40CW	24-Oct-97	02:22	53	N6KR	*	559	599	WAYNE	490	CA	1
40CW	24-Oct-97	02:23	54	KA7NOC	*	559	579	STEVE	909	ID	1
40CW	24-Oct-97	02:25	55	AC6KW		559	559	JEFF	16	CA	1
40CW	24-Oct-97	02:28	56	K5JHP		559	539	BILL	825	TX	1
40CW	24-Oct-97	02:30	57	AA2PF		549	559	DAVE	306	NC	1

Date: Wed, 29 Oct 1997 11:00:34 -0500
 From: Steve Hideg <Steve.Hideg.1@nd.edu>
 To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
 Subject: [29860] Re: ICOM Rigs - QRP
 Message-ID: <v03102801b07d0d52cade@[129.74.35.26]>
 Mime-Version: 1.0
 Content-Type: text/plain; charset="us-ascii"

At 8:47 AM -0500 10/29/97, Wilford D. Lindsey wrote:

>Jeff:

>

>I also need this information. Therefore, could you forward to me copies
 >of whatever information you receive? This would be a great favour!
 >Thanks.

Well, I don't know how universal it is for other ICOM rigs, but I have a
 page that describes a simple adjustment (not a "mod") you can make to
 internal potentiometers on the IC 735, complete with pictures:

<<http://qrp.cc.nd.edu/qrp-l/hints/ic735/>>

--Steve

Steve Hideg, N8HSC/9 QRP-L #136
 Check out the Internet QRP Club's site on the WorldWide Web:
 <<http://qrp.cc.nd.edu/QRP-L/>>

Date: Wed, 29 Oct 1997 09:30:20 -0700
 From: Tim Pettibone <tpettibo@NMSU.Edu>

To: qrp-1@Lehigh.EDU
Subject: [29861] FOX Hunt for N0UR
Message-ID: <3.0.2.32.19971029093020.006a129c@cnmailsvr.nmsu.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Let's see, headed out to Silver City NM (current home of Lew McCoy) for a meeting. Took the QRP+ and Hamstick for 40m .. just in case I got a chance to FOX hunt. Meeting went long, people were late for the dinner, and didn't get out of Silver City until after 0200z. Heard the pileup and even heard N0UR but he didn't hear my puny little sigs coming off the Hamstick stuck on top of the pickup. It's nearly a 2 hour drive back to Las Cruces. My poor spouse had to hear me bellyache about digital, power line noise along the highway, and idiot QRO qsos! Kept hearing the FOX up to S4 and occassionally called him. Nada.

Got home about 5 minutes before the gong. Ran into the house, turned on the rig, found him calling CQ but still couldnt get through. The spouse keeps telling me that I keep telling her that this FOX stuff is fun. And it is, but it is frustrating as well. Good for the soul I guess. Good hunting comrades!

Tim K50I

Date: Wed, 29 Oct 1997 11:31:49 -0500
From: Dale Scott <dcscott@us.ibm.com>
To: <qrp-1@Lehigh.EDU>
Subject: [29861] CW and JAG
Message-ID: <5030200018163808000002L082*@MHS>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Don't know if any of you saw the episode of JAG last night but there was a brief sequence where one F-14 send a CW message to another F-14 (which = had no radios) using a flashlight. Interesting part was that the message supposedly said something to the effect "your wife and daughter are alright" all in the space of about 10-15 seconds at 6-7wpm. Wish I knew how to do that!!

72/73

Dale/kc7khd

Internet: (work) dcscott@us.ibm.com
(home) dcscott@ibm.net
OV/VM: dcscott@ibmusm52
Dale C. Scott
IBM -- Engineering Technology Solutions
(206) 587-2784 8/277-2784
=

Date: Wed, 29 Oct 1997 11:18:15 -0500
From: "Kevin F. Glynn" <kfglynn@prodigy.net>
To: <jhahn@bellatlantic.net>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [29861] Re: ICOM Rigs - QRP
Message-ID: <199710291618.LAA42720@pimout1-int.prodigy.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi Jeff and gang (FYI)

I have an Icom IC-728 HF rig that has two pots on the motherboard. One for high power limit and one for low power limit.

I tuned this rig about a year and a half ago at my friend's house (has a complete bench). I was able to turn down the power to about a watt on min and 100 on max. Now I just use the pot on the front of the rig to adjust the output power.

Not sure what rig you have, but I know this is also true for the IC-735.

GL

72 Kevin N2T0
Brooklyn, NYC
kfglynn@prodigy.net

Date: Wed, 29 Oct 1997 11:10:10 -0800
From: Charles Kadesch <chas@digizen.net>
To: ham@w3eax.umd.edu
Cc: qrp-l@Lehigh.EDU
Subject: [29862] Re: Just how does a mixer work, mathematically?
Message-ID: <34578A12.1409@digizen.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Scott- The best descriptions of the workings of mixers (and many other radio circuits) I have seen were written by Frederick Terman in his classic Radio Engineering texts (you can often find used ones at hamfests). I wish he had lived long enough to write some books on the newer solid state circuitry. A more recent book "The Science of Radio" by Paul Nahin might be of interest as well. Also, there is article in the 73 magazine for May 97 "Is your Mixer Circuit Mixing Like it Should?" which gives some tips on testing these ingenious circuits (but not for IMD).

-72-

Chas W3KC

Date: Wed, 29 Oct 1997 11:35:40 -0500
From: "W. D. Lindsey" <70511.3041@CompuServe.COM>
To: "INTERNET:dcscott@us.ibm.com" <dcscott@us.ibm.com>
Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [29862] CW and JAG
Message-ID: <199710291140_MC2-258D-97FA@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Dale:

Saw it....but missed too much to know what the Major was sending. But even my non-ham XYL noted it!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><
FOX total 10/28/97 = 10 of 10 & 7 of 8 N/T+ FOXes

Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2
Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 12:45:08 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [29863] Re: CW and JAG
Message-ID: <Pine.LNX.3.93.971029123839.799B-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Oct 1997, Dale Scott wrote:

> said something to the effect "your wife and daughter are alright" all in the
> space of about 10-15 seconds at 6-7wpm. Wish I knew how to do that!!

Didn't see the show, but how about "THEY R OK", pushes the 7wpm and 15
second limit, but if he already "knew" what the question was, the answer
can be substantially shortened. Kinda like that stuff I gotta figger' out
to send for SS :)

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 27/10(w/c) | ccart@erols.com --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | <http://dns.vidtel.com/~ccart> --

Date: Wed, 29 Oct 1997 11:49:44 -0500 (EST)
From: "Scott Rosenfeld [NF3I]" <ham@w3eax.umd.edu>
To: Dale Scott <dcscott@us.ibm.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29864] Re: CW and JAG
Message-ID: <Pine.LNX.3.95.971029114459.21221J-1000000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I personally saw the episode and figured it must've been some other code -
for that much info to be sent THAT fast.

* Scott Rosenfeld NF3I Burtonsville, MD FM19mc QRV 80-10/6/2/440 *

* 6m 80 grids on 8w * DXCC WAS WAC * QRP-L #147 * QRP ARCI #9054 *
* Charter member, Maryland Milliwatters * W3-VK on 3w mobile CW *
*** 301-549-1022 h / 301-982-1015 w ** Life is one big hamfest ***

On Wed, 29 Oct 1997, Dale Scott wrote:

> Don't know if any of you saw the episode of JAG last night but there was a
> brief sequence where one F-14 send a CW message to another F-14 (which had no
> radios) using a flashlight. Interesting part was that the message supposedly
> said something to the effect "your wife and daughter are alright" all in the
> space of about 10-15 seconds at 6-7wpm. Wish I knew how to do that!!
>
> 72/73
>
> Dale/kc7khd
>
> Internet: (work) dcscott@us.ibm.com
> (home) dcscott@ibm.net
> OV/VM: dcscott@ibmusm52
> Dale C. Scott
> IBM -- Engineering Technology Solutions
> (206) 587-2784 8/277-2784
>

Date: Wed, 29 Oct 1997 08:48:58 -0800
From: "Earl S. Mead" <k6esmead@pacbell.net>
To: kh6b@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29865] Re: NVIS
Message-ID: <345768F9.B40C55DD@pacbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dean W Manley wrote:

>
> Aloha, everyone.
> >Can anyone help me locate the fairly recent article on building and
> using a "NVIS" antenna?

> 73 and Aloha, Dean Manley KH6B

> kh6b@juno.com

-----original message edited only for

brevity-----

Hi Dean:

You can buy a book on NVIS antennas (NVIS Communications) for \$14.00 plus \$2.00 S&H at:

WORLD RADIO BOOKS

P.O. Box 189490

Sacramento, CA. 95818

tel: (916) 457-3655

72s, CUL, Earl, K6ESM

--

The pessimist curses the darkness in the tunnel; the optimist thinks a light is at the end of the tunnel; the opportunist finds the light and turns it on; the explorer sees railroad tracks; the developer builds a station; the entrepreneur sells tickets for the train; the consumer buys a ticket and rides the train. Ah, the wonder of it all.

Date: Wed, 29 Oct 1997 11:58:01 -0500

From: "W. D. Lindsey" <70511.3041@compuserve.com>

To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>

Cc: "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>

Subject: [29866] Tnx fer NVIS assist

Message-ID: <199710291201_MC2-258D-9A7F@compuserve.com>

MIME-Version: 1.0

Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Gang:

Many thanks to so *many* of you who responded to my request for NVIS advice. Am using this "wholesale" method of saying thanks. Just too many have written back. What a group we have!

I have an extensive file now, and will be putting it to good use. Had hoped to get a NVIS dipole into action for last night's FOXhunt for Jim NOUR. He is only about 85 miles from here (in Minneapolis, while my QTH is Rochester, MN), and I had hoped to snag him.

No luck, but then I was unable to get the NVIS project off the ground ;-(& :-). Will be putting one up (down?) soon, though, as it could prove a valuable addition to the antenna farm.

BTW, congrats to all you FOX hunters last evening. Most of you were plenty

strong, and some had 589-599 signals here. And it sounded like Jim was pretty busy. Finally heard him weak-but-clear with only 4 minutes left in the hunt. Guys were still calling him. I joined them...but his RST was only 119 or less. Oh well. Hopefully next time, though.

Again, thanks for the invaluable assistance. Turns out there is a lot of info on the NVIS, and it sounds promising. See ya!

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><
FOX total 10/28/97 = 10 of 10 & 7 of 8 N/T+ FOXes

Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er
Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2
Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 12:17:51 -0500 (EST)
From: Bob Patten <n4bp@shadow.net>
To: "Wilford D. Lindsey" <70511.3041@compuserve.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29867] Re: ICOM Rigs - QRP
Message-ID: <Pine.SOL.3.96.971029120813.27179A-100000@goliath>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Oct 1997, Wilford D. Lindsey wrote:

>
> I also need this information. Therefore, could you forward to me copies
> of whatever information you receive? This would be a great favour!
Just before the ARCI QRP Fall Party, I built a little "power control" box
for my IC-706MKII. It simply supplies an adjustable voltage to the ALC
input and allows me smooth control from 0-20 Watts. The unit uses two AA
cells, SPST switch, one front panel controllable pot and two trim pots to
set the high and low end of the power range.
I also built a 6db PYE pad, but didn't use it for two reasons:
It attenuates the RX signals by 6db.
It wastes 3/4 of the transmit power (opposes the QRP concept).
Although this was built up with no schematic, I can easily draw one up for
anyone interested...

73,

, ' ' ' ,

Bob Patten, N4BP

(0 0)

Plantation, FL

-----o00o-()-o00-----

E-Mail: n4bp@shadow.net

Web Page: <http://www.shadow.net/~n4bp/n4bp.htm>

Brass Pounder BBS: (954) 472-7715

Date: Wed, 29 Oct 1997 12:02:26 -0500

From: "W. D. Lindsey" <70511.3041@CompuServe.COM>

To: "INTERNET:tpettibo@NMSU.Edu" <tpettibo@NMSU.Edu>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@CompuServe.COM>, QRP-L Discussion Group <QRP-L@Lehigh.EDU>

Subject: [29868] FOX Hunt for N0UR

Message-ID: <199710291204_MC2-258E-6591@compuserve.com>

MIME-Version: 1.0

Content-Transfer-Encoding: 7bit

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Tim:

Well you could at least hear him! *Maybe* I heard a whisper signal among all the loud hunters within the first hour...but then it sounded like everyone went away. I even changed rigs to be sure something had not died. Tried the TNT/2 and GAP and even the W3EDP, but no luck here.

Finally did hear him clear up to RSE 119 in the last four minutes. He was still working guys to the last second. But he did not hear me at all. Oh well. Hopefully next time.

72/73,

--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19

nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><

FOX total 10/28/97 = 10 of 10 & 7 of 8 N/T+ FOXes

Icom 751a OMNI V Sierra Argo 515 Norcal 40a SW-40 49er

Mercury Paddles Emtech ZM-1 MFJ 259 MFJ 941D GAP Titan DX TNT/2

Windom SLV/W6MMA G5RV Autek QF-1 RS DSP-40

"Things should be as simple as possible but no simpler"--A. Einstein

Date: Wed, 29 Oct 1997 04:03:21 -0500

From: "Daniel L. Evans" <dlevans@hsonline.net>
To: QRP-l@Lehigh.EDU
Subject: [29869] 2222....22
Message-ID: <3.0.1.16.19971029040321.2f772b74@mail.hsonline.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

This 2222 stuff sounds like fun. These things are cheap! That always gets my attention!

Now, who's gonna post the first designs?

BTW, If I'm lucky, I may get a few hours to work SS. Look for a tiny 10 meter signal mobile in southern Indiana.

72/73 de N9RLA.....EM78
Dan L. Evans [N9RLA]
dlevans@hsonline.net

Date: Wed, 29 Oct 1997 12:05:05 -0500
From: "W. D. Lindsey" <70511.3041@compuserve.com>
To: "INTERNET:kfglynn@prodigy.net" <kfglynn@prodigy.net>
Cc: QRP-L Discussion Group <QRP-L@Lehigh.EDU>, "W.D. (Doc) Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [29870] Re: ICOM Rigs - QRP
Message-ID: <199710291206_MC2-258E-65F7@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

Kevin:

I have an Icom 751A. Apparently it cannot be QRPped, however. Their technical bulletins say it can only go down to about 5 watts. The predecessor (the 751) could go farther down, and with a simple pot adjustment inside the case, etc.

If you know of any way to take it below 5 watts, please advise. Thanks in advance.

72/73,
--Doc/K0EVZ qrp-l 861 norcal 2050 cqz 414 ars 311 mn-qrp 19
nj-qrp 69 ak/qrp 73 arci 9398 arrl was 48/39 dxcc 53/42 <><

Date: Wed, 29 Oct 1997 09:37:21 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "QRP-L list server" <qrp-l@Lehigh.EDU>
Subject: [29872] Fox follies
Message-ID: <199710291736.LAA05705@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Gang --

Sure was an interesting foxhunt last night. My wife walked by the shack a few times wondering why I was laughing out loud.

First, Jim did an excellent job controlling the pile-up. In fact, he did such a good job that he ran out of stations before his two hours were up. Remember that for the next one, folks; timing is everything. Save your finals. Good work, Jim.

Next highlight of the evening was when N0UR picked me out of the pileup, and before I could respond, AK1P finished the QSO for me. Jim asked, "R U K1MG?" Nearly fell out of the chair on that one. Now that's creative timing, Paul. You had a very good signal here as always. Of course, I had to do it all by myself a few minutes later. That time, I didn't hear my call because of the late timed hunters, so Jim had to repeat, "K1MG?" again. At least I know he got the call right -- several times!

This was so much fun that I stuck around and listened to more of the games.

I enjoyed hearing the aluminum-challenged coppertops, AB7ST and AB7TT, trying to work N0UR simultaneously. That's a very clever pile-up technique. Fit two QSOs in the space of one. I was glad to hear that you both worked the fox separately eventually. Congratulations, team AB7*T*.

Of course, the hilarity highlight of the evening was when one gentleman hunter, who shall remain call-less, missed his cue (no, not you; it was the other guy). He had been sending his call twice at the end of every QSO, once when Jim started listening for hunters, and once while Jim was sending the call of the one who caught him. This carefully timed QRM went on for about an hour until, finally, N0UR called him! Then he was nowhere to be found. Jim had to call him three times before he responded. I imagined the poor fellow was nearly exhausted sending his call over and over, and passed out cold when the fox actually returned the call! Fortunately, he regained consciousness and managed to complete the QSO with a very fine fist. (BTW, you were 599+ here in California, nice sigs)

Date: Wed, 29 Oct 1997 09:47:47 -0800
From: "Gene A. Williamson" <genewill@ordata.com>
To: QRP-L Discussion Group <QRP-L@Lehigh.EDU>
Subject: [29872] RE: QRP in CW SS
Message-ID: <3.0.32.19971029093859.00690a14@ordata.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I also want to urge all QRPers to give CW SS a try -- it's IDEAL for finishing up WAS, and fantastic practice at being heard through a pileup. (Vic Clark, W4KFC, one of the finest gentlemen and operators who ever lived, once said: "You don't have to be loud, you just have to be exactly where the DX is listening." One of my greatest DXing thrills was landing an HB0 through a snarling pileup, and having him give me a 429 report.)

I've been "serious" about SS for nearly 20 years, some 18 of those using only a dipole, a delta loop, or a multiband vertical. From Oregon, I've operated SS running 5watts, 50watts, and 500watts, and year in/year out I will work THE SAME 300 PEOPLE . . . it just takes **longer** at lower power.

Successful "Searching and Pouncing" operation is exactly the same no matter how much or little power you run. Keep tuning, keep changing bands, and keep calling -- but only call a station three or four times, then go away, and come back in 5 or 10 minutes. Run through the band quickly, calling all the super-strong stations. Then, tune again, paying attention to the weaker sigs. I'm always astounded when I call someone who's only a whisper in my ears (but on a reasonably clear frequency), and he comes right back. When you're calling, change your frequency a tiny amount -- 50 or 100hz -- with each call. Even if you've got a 429 signal, should you happen to hit exactly the right hole in that pileup, you're In The Log[tm]!

Big scores come with the added ability to CQ successfully -- and there, the higher the frequency, and the more the sunspots, the easier it is to CQ and to hold a frequency at lower power levels. Also, the greater the chance that those "whisper" signals will hear you. FWIW, and IMHO, of course.

GL to all and CU in SS!

73 Gene K7dBV
EVERYBODY is Always S9 Somewhere!

genewill@ordata.com

Date: Wed, 29 Oct 1997 13:55:26 -0500 (EST)
From: Chris Cartwright <ccart@dns.vidtel.com>
To: QRP Reflector <qrp-l@Lehigh.EDU>
Subject: [29873] FOX: CA vs TX vs AZ
Message-ID: <Pine.LNX.3.93.971029134525.799C-1000000@dns.vidtel.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have the "official" numbers for the first seven hunts compiled, but still have to get them "pretty" to publish to the list. But the big three right now are:

CA - 73
TX - 55
AZ - 39

I should have the full tally up by the end of the week (work can be so time consuming) and some more of the official numbers for the last few hunts. Hopefully I'll get things sorted by states, US/Canada, east coast/west coast, 1-land, 2-land, 3-land... That way everyone will be in a "winning" group:) Seems there is always this one entry from NV, keeps skewing the count <grin>. Hey Monte, are you the *only* qrp'r in NV? And should I count more that CA, TX and AZ as the west coast?
72

-- Chris Cartwright, Technical Engineer | ccart@vidtel.com --
-- N3XRV ARRL-VE QRP WAS 27/10(w/c) | ccart@erols.com --
-- QRP-L #655 NORCAL #1891 QRP-ARCI #???? | http://dns.vidtel.com/~ccart --

Date: Wed, 29 Oct 1997 12:50:52 -0500
From: Henry Freedenberg <henryf@quartz.gly.fsu.edu>
To: ham@w3eax.umd.edu
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29874] Re: Just how does a mixer work, mathematically?
Message-ID: <3457777C.3565@quartz.gly.fsu.edu>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Scott Rosenfeld [NF3I] wrote:

>

> Sure, I can see how you get two frequencies injected, but exactly how does
> the math explaining the mixer work? How does IMD come into play?

Good question. Most of the DSP types I associate with substitute the term convolution for mixing. As best as I can remember, convolution theory says that your system output can only contain the frequencies present in the input (the input frequency) and the operator (mixing frequency).

If you have two equal magnitude wavelets of different frequency, convolving the wavelets will produce a resulting wave that will contain areas of greater amplitude where the waves add constructively and areas of lower magnitude where the waves combine destructively. The points of maximum amplitude on the convolved wavelet are evenly spaced and determined by the frequencies of the wavelets you are convolving. I suspect that if you were to examine the spacing between amplitude peaks in the convolved wavelet, you would wind up with the sum and difference frequencies that you are looking for. Changing phase should shift the peaks but the frequency content should be the same.

Don't know how IMD is determined.

I remember flying from Memphis to Houston seated in the back of an early DC-9 (It was a recent flight..Northwest has little competition on the route and they used an older aircraft). The flight crew had to synch the turbines manually. The flight deck is at the front of the plane while the engines are in the rear --limited opportunity for audio feedback. At any rate, the crew on this flight did not do such a good job of synching the engines. The result was a terribly annoying surging sound caused by the beat note set up as the engines moved in and out of phase. This is directly analogous to RF mixing. The "beat" note on the aircraft was the difference in the two turbine frequencies.

Hey, I'm only a pedestrian.

Henry

Date: Wed, 29 Oct 1997 11:20:54 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: mgipe@reliablemeters.com
Cc: qrp-1@Lehigh.EDU
Subject: [29873] Re: Fox follies
Message-ID: <199710291820.LAA06765@usr04.primenet.com>

Howdy Folks,

Mike (K1MG) wrote:

> I enjoyed hearing the aluminum-challenged coppertops, AB7ST and AB7TT,
> trying to work NQUR simultaneously. That's a very clever pile-up
> technique. Fit two QSOs in the space of one. I was glad to hear that you
> both worked the fox separately eventually. Congratulations, team AB7*T*.

Oh you don't know the half of it. Right after the hunt, I apologized to AB7TK, AB7ST apologized to me, and frankly none of us were sure we were apologizing to the right person, or if apologies were even due. :)

All we know is that via QSK we started picking up someone else sending their exchange (took a bit to realize it wasn't the typical late Hound chatter) and we both stopped, fearing we were QRMing a fellow Hunter. Maybe the Fox can shed some light on what it sounded like on his end. He might've been rolling on the floor. :)

But we will continue with our careful research into Hunter Exchange Compression, and hope to have a breakthrough to report soon. QEX article to follow soon.

BTW, *great* ears Jim. Don't know how you picked me out of the noise, but it was a happy moment when I heard "AB7TT" come back. I'm sure it was me that time. I think. Or was it AB7TK with sharp QSB on the last "ditdah"? Or AB7ST and wishful thinking on my part? Oh blast... ;-)

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"What kind of sycophant are you?!"

"What kind of sycophant do you want me to be?"

- 101 Dalmations (the Movie)

Date: Wed, 29 Oct 1997 13:44:06 -0500
From: Jeff & Bea Hahn <jhahn@bellatlantic.net>
To: qrp-l@Lehigh.EDU
Subject: [29874] ICOM - QRP

Message-ID: <345783F6.2389@bellatlantic.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

This morning I sent the following e-mail to the list:

> Several weeks ago there were postings about how to cut the output of
> an ICOM rig to QRP levels. I asked the Technical Information Section
> at the ARRL if there were any articles in QST on the issue and they
> directed me to the Feb., 1993 issue, Page 75, Hints and Kinks,
> Operate QRP with an easy to build Attenuator.
>
> Unfortunately I don't have a copy of that issue. Is there someone who
> would be willing to send me a copy of the article? Naturally, I would
> provide a SASE and cost of copying.
>
> Thanks.
>
> Jeff Hahn, KR4YS
> 11009 Warwickshire Drive
> Great Falls, VA 22066

Several people responded directly to me or through the list inquiring about the model number of my ICOM. It is an IC 737.

Any and all suggestions on how to cut the power of the 737 to QRP levels are appreciated (in addition to help in getting a copy of the above QST article).

Thanks again es 73

Jeff Hahn, KR4YS

Date: Wed, 29 Oct 1997 18:42:27 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: mgipe@reliablemeters.com
Cc: qrp-1@Lehigh.EDU
Subject: [29875] Re: Fox follies
Message-ID: <199710291842.SAA00803@chuck.dallas.sgi.com>

Mike et.al.,

Mike, K1MG, says, "One thing is clearly apparent. As a group, we haven't quite gotten our timing right (myself included) -- and timing is everything in a pileup."

Well, the last couple of times I've been lucky myself. Last night I went out to dinner with Jay, W5JAY, and we talked the usual and unusual QRP-stuff. Thanks to Jay for hollering while he was in town (well Ft Worth) and fighting the traffic to get across two counties to get to the office. He should be at the NorTex meeting on Saturday, which will cover paddles and keyers this time. I ran by the office after dinner and then to the house to try and see what's still cooking on the air. Turn on the rig and hear Jim, N0UR, calling CQ with no takers. I wait about 15 seconds for the rig to quit the usual 30Hz drift :-) and give him one call. Bagged, logged, and counted in one swift operation.

Then hear someone send U and I send C.

For those not in the know, this means "K5F0 move up and I'll call you" and my reply is "Yes, go ahead and I'll look for you". Didn't miss a beat. And people say it takes forever to get anything exchanged. On the previous thread about the TV show I would have sent 'FMLY OK'. I move up and K1MG was calling me. I didn't need to hear before hand who it was, just go up 5KHz or so and listen for my call (I have that one down pretty good if I do say so myself). :-)

This dweeb stuff is fun. Let me go off here and tally the scores for this week and post.

Film at 11.

Chuck Adams K5F0 CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Wed, 29 Oct 1997 11:57:33 -0700 (MST)
From: Bob Hightower <ki7mn@dancris.com>
To: mgipe@reliablemeters.com
Cc: qrp-l@Lehigh.EDU
Subject: [29876] Re: Fox follies
Message-ID: <199710291857.LAA22829@dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:37 AM 10/29/97 -0800, you wrote:

>
>One thing is clearly apparent. As a group, we haven't quite gotten our
>timing right (myself included) -- and timing is everything in a pileup.
>

Yup..with all the advice on the list about tailending and so on, the pile-up seems to go on forever. I missed my call the first time he sent it, and almost the second time. But, it is getting better.

Heck, I might have stepped on someone, for all I know...so much traffic in so little b/w :^)

73,
Bob KI7MN (ki7mn@dancris.com) Chandler, AZ
Grid DM43bi Lat 33.334500 Long -111.87260
NorCal #1221 ARCI #8918 Qrp-1 #271 CQC #274 AK QRP #30 ARRL
<http://www.dancris.com/~ki7mn>
WIMPS: QSO's=19 30=19 17=0 12=0 States=15/0/0 DX 0/0/0 QSL's=6

Date: Wed, 29 Oct 1997 15:43:33 -0400
From: Dave Marling <dbm@kllis.com>
To: qrp-1@Lehigh.EDU
Subject: [29877] PIC'S and amateur radio
Message-ID: <345791E5.F4EABA9D@kllis.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

A week or two ago, there was mention of a presentation given on PIC's and amateur radio, and the question was asked (or suggestion was made) if that would be posted to a web site for those unable to attend.

Did that get posted? If so, where? If not, will it?

I would certainly be interested in seeing same.

Dave
VE1VQ

Date: Wed, 29 Oct 1997 10:40:16 -0800 (PST)

From: Monte Stark <ku7y@sage.dri.edu>
To: "Michael A. Gipe" <mgipe@reliablemeters.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29878] Re: Fox follies
Message-ID: <Pine.SUN.3.90.971029103922.27916C-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Oct 1997, Michael A. Gipe wrote:

> You just can't get this kind of entertainment elsewhere -- and it's free!

Geeeeessssh, you ain't seen my credit card bill, have you?

cul,

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Thu, 30 Oct 1997 03:30:57 +0800
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
To: qrp@pandora.lugs.org.sg
Subject: [29879] 455kHz ceramic filter differences
Message-ID: <34578ef1.pandora@pandora.lugs.org.sg>

Hi,

I have some questions concerning 455kHz IF filters. I wonder if someone here can help me out.

1. What is the difference between a CFWM455E and a CFW455E? Do they belong to the same family, and thus share the same basic characteristics? (except bandwidth perhaps?)
2. I am looking for a "flat group delay filter". I'd appreciate if someone enlighten me on this. I understand that some filter types introduce phase distortions and flat group delay filters don't. How do I tell the difference?
3. Will impedance mismatch in the IF stages result in phase distortion or just plain losses?

I know these are rather unusual questions but I'd appreciate any pointers. Thanks.

73 de 9V1ZV Daniel

--

```
+-----+-----+
| Daniel Wee | daniel@pandora.lugs.org.sg |
| 9V1ZV      |                               |
| QRP-L #667 | 9V1ZV@amsat.org                   |
+-----+-----+
```

Date: Wed, 29 Oct 1997 19:07:52 +0000
From: Stephen John Farthing <stephen@stevef.demon.co.uk>
To: qrp-l@Lehigh.EDU
Subject: [29880] Euro NORCAL QRP Subs and Paddle Kit Orders
Message-ID: <oNM66LAI4V0EwFI@stevef.demon.co.uk>
MIME-Version: 1.0

Fellow NORCAL European Members. I have received orders and dispatched details to Jim Cates for the following :-

2 Year Subscriptions to QRPP:

Chris Rees G3TUX

Greg Mossop G0DUB

T R Greenwood G4AYR

John Francis G4XVE

1 Year Subscription to QRPP

Brian Jones G0UKB

Paddle Kits

Brian Jones G0UKB

Wolfgang Luther DL6LUW

Norbert Heyder DL8BDF

Thank you one and all. These are all the orders I have had so far and your cheques will be put into the bank tomorrow. Please let me know if you have any problems.

As the paddle kits are selling rapidly please place your order quickly with me for onward transmission to Jim. The price is UKP 25.0 inc P and P to Europe.

BTW, I intend to set up an Access Database for European Members to help me administer Subscriptions and kit orders - also to send out reminders to renew QRPp subscriptions. I'll need your approval for this so if you do not agree please mail me. Once the membership increases a bit we should aim for a meeting over here - I am thinking that the next GQRP club Yeovil Convention might be a good venue. We could set up a stall and show off our cool NORCAL projects. I'll have a 38 Special and a 40A and some paddles. What do you think?

73

--

Stephen John Farthing MBCS G0XAR
Melksham, Wiltshire UK
RSGB G-QRP 7766

Date: Wed, 29 Oct 1997 10:44:06 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: Chris Cartwright <ccart@dns.vidtel.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29881] Re: FOX: CA vs TX vs AZ
Message-ID: <Pine.SUN.3.90.971029104325.27916D-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Chris,

Nope, I'm not the only one in NV....there is also my boss,
N7CTJ, Dick. He has a few pelts also!

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

Date: Wed, 29 Oct 1997 13:42:39 -0800
From: Paul Maciel <pmaciel@inow.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29882] Re: Fox follies
Message-ID: <3457ADCE.924BFF5F@inow.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Mike,

Happy to finish for you. In the noise I heard K1 and what I thought was a P, no one jumped to reply so I used the old rule "work first, worry latter".

Thanks for being a good sport about the whole thing, just think how easy I'm going to have it once you get all that new aluminum up in the air.

72/73, ---Paul AK1P

Date: 29 Oct 1997 16:41:43 -0500
From: Glen Leinweber <leinwebe@mcmail.CIS.McMaster.CA>
To: qrp-l;;
Subject: [29883] re: 2N2222 design contest
Message-ID: <1997Oct29.164143-0500@[130.113.234.7]>

>From Doug's (Wayne's) post about 2N2222 buiding contest:
>The object of this contest is to build a ham-band transceiver using only
>one kind of active device, the venerable 2N2222 NPN transistor.

Ok, I agree with the general idea here: 2N2222's are reeeeeal cheap and available. You can certainly make a bodacious radio with 'em. With NORCAL's buying power (how many would order such a radio, 500? 1000?,1500??) a 2N2222 radio could be real cheap too!

A LM386 audio power amp costs about \$1.35. Could you design something similar with about 8 2N2222's? Maybe - tricky though. As has been pointed out before, adding a coupla PNP's would ease this task a lot,

Or you could use the classic (class B) design with two 2N2222's, along with two push-pull transformers at input and output to drive a speaker. All the old transistor radios used this circuit. Problem is, the transformers push the cost way over the LM386.

Things like mixers, oscillators, I.F. amplifiers are a piece-'o-cake with the 2N2222. No problem here. You can duplicate a NE602 with about 8

2N2222's: it'd be cheaper and work about the same.

Then there's the RF power amp. It'll be a real challenge to coax 5 watts from 2N2222, even if you gang 'em up row on row. I suppose you could get fancy and try a class D or E or F? amplifier. But will it tune easily? Be buildable by mere mortals? I can see the instruction manual, "...solder the case over the PA before applying power - flying bits of 2n2222 plastic can be dangerous to your health..."

But the idea of a radio made with DISCRETE devices is good. Parts count will likely be high, but we have patience, and no ham punches a clock when he/she builds a radio. Its just that ONE active device makes some radio circuits more complex or costly than necessary.

-sour grapes from an inferior designer than Wayne Burdick, or Ori or.....;-)

Date: Wed, 29 Oct 1997 15:29:19 -0600 (CST)
From: Bill Howell <bhowell@mail.utexas.edu>
To: qrp-1@Lehigh.EDU
Subject: [29884] Surplus Sales of Nebraska...Catalog
Message-ID: <199710292129.PAA12965@mail.utexas.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

A friend had one of Surplus Sales' new catalogs (8 1/2 x 11, glossy pages, full of cool stuff). It looks pretty neat. Surplus Sales are the guys who have all that hard-to-find stuff. At a price.

The hard-copy catalog is \$5. You can check out their Web site at: <http://www.surplussales.com/>

Litz wire? You want Litz wire? They sell it by the pound. Metal shields for "peanut" tubes? They've got 'em.

A lot of the components have photos accompanying the descriptions.

72,

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance

N5ALO QRP-L #415

belief preceeds experience

Date: Wed, 29 Oct 1997 14:44:00 -0600
From: Dan Tayloe-P26412 <Dan_Tayloe-P26412@email.mot.com>
To: qrp-l@Lehigh.EDU
Subject: [29885] Re: Norcal 2222 Design Contest
Message-ID: <M149159.044.u1zc4.1.971029215002Z.CC-MAIL*/OU=SATCG/OU=AZBH/PRMD=MOT/ADMD=MOT/C=US/@MHS>

Well rats! I just bought 40 2N4401 two weeks ago!

DC Electronic sells common transistors (such as the 2N2222) 10/\$1. I think 2N4401s are a bit hotter, so I tend to use a lot of them as generic all purpose switching/rf/osc transistors.

No ICs! How about an exception for voltage regulators? I hate to go back to zener diodes! Now, I do get to use *zener* diodes don't I?

Oh well.... I wanted to build a spare 40m Fox rig anyway.

Lets see... How many 2N2222s to get to five watts? Hummmm... About 20. Talk about QRP hybrid combining techniques! That also leaves 2 for everything else.... Since I don't have an aluminum forest in the back yard, the power will not likely be good enough for cracking Fox pileups.

It sounds like fun anyway. There is always the Sprint. Back to DC Electronics for another bag full of transistors!

- Dan Tayloe, N7VE, Phoenix, AZ, QRPL #696, Az ScQRPions

Date: Wed, 29 Oct 1997 14:03:45 -0800
From: ki6ds@dpol.k12.ca.us (Hendricks, Doug)
To: qrp-l@Lehigh.EDU
Subject: [29886] 2222 Design contest questions
Message-ID: <3.0.1.32.19971029140345.006d7898@telis.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

There has been an enthusiastic response so far to the 2222 NorCal contest. One question was about the use of crystals. The answer is yes you may.

Others have asked about using PNP transistors. I am not an engineer. Is it possible to design a good usable transceiver without using PNP transistors, using just 2N2222's? Let me know about this one. We have a forum here, lets use it. Post your opinions and reasons why you think we should or should not use PNP transistors in the 2222 contest. Please, no flame throwing, civilized debate only. 72, Doug, KI6DS

Date: Wed, 29 Oct 1997 14:05:24 PST
From: "Bill L." <wn8mea@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [29887] Attn: Disabled QRP'ers...
Message-ID: <19971029220525.21499.qmail@hotmail.com>
Content-Type: text/plain

Several years ago, I found a little niche in the market for inexpensive ASSEMBLED qrp transmitters. I was approached by a nursing home resident who asked me to build him a little qrp transmitter from a schematic. He wasn't allowed to use a soldering iron in the home, so kits were out for him. I found the experience fun and rewarding and started to manufacture and market the transmitters along with some other small gadgets.

Meedless to say, you don't have to be disabled or elderly to purchase my little 40 meter transmitter, but most of my xmitter customers are handicapped in some manner and were looking for something assembled and inexpensive they could put on the air and enjoy QRP along with us. But I've had some who have just been too busy to build anything, or even those who were "all thumbs" and weren't eager to build.

Anyway, please pass the word around if you know of a disabled or elderly ham who would like to get into QRP. The little 40 meter transmitters is called the "PEANUT WHISTLE 2". You can find more info at my website:

<http://www.GLR.com/peanut>

73,
Bill Lauterbach
WN8MEA/QRP

Get Your Private, Free Email at <http://www.hotmail.com>

Date: Wed, 29 Oct 1997 15:49:12 -0600 (CST)
From: Bill Howell <bhowell@mail.utexas.edu>
To: qrp-l@Lehigh.EDU
Subject: [29888] Re: NVIS article
Message-ID: <199710292149.PAA30638@mail.utexas.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Doc/K0EVZ Wrote:

"Can anyone help me locate the fairly recent article on building and using a "NVIS" antenna? I believe it was in 73, CQ or QST within the last year or so. "

>>>>>>>> SNIP <<<<<<<<<<<<

Doc, I don't recall a recent article on this, but if you are referring to a large (272 ft.) horizontal loop, an early article describing it was in QST, November 1985. It was also shown in at least one of the Handbooks but I couldn't tell you what year.

72,

Bill Howell
University of Texas at Austin
Performing Arts Center
Electronic Maintenance
N5ALO ORP-L #415

belief preceeds experience

Date: Wed, 29 Oct 1997 17:18:45 -0500 (EST)
From: fmathews@norfolk.infi.net (Frank Matthews)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29889] Pixie2 Revision File
Message-ID: <v0i530501b07d1e616945@[208.131.170.195]>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Fellow QRP-Lers

Mark A. Arvidson, KB0SPQ, was kind enough to convert the "unfriendly file" to a gif. format and has offered to post it on his web page and suggested that Chuck may even be able to post it on his Pixie2 page. Many thanks to Mark and also Al (forgot Al's last name and call....e-mail file is at work) who furnished the files.

Once again....this is without a doubt the best user group in the world! It's great to see everyone pull together and try to help one another. It kind of restores one's faith in mankind!

Frank

Frank Matthews
Technology Education Department
Oscar F. Smith High School
Chesapeake, VA 23320
fmatthews@norfolk.infi.net
KC4FKX QRP-L #1079 CQC #434 NorCal #2232 AK/QRP #199
Grid Square FM16

Date: Wed, 29 Oct 1997 14:20:55 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: <ki6ds@dpol.k12.ca.us>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [29890] Re: 2222 Design contest questions
Message-ID: <199710292221.QAA31233@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Yes, it is certainly possible to build a transceiver without PNPs. Tube rig designers never had the luxury of a complementary device. Of course, the circuits will use things like transformers in places where we wouldn't normally use them today.

I would vote for leaving the contest as is...except maybe the total transistor count. How can you do everything with only 22 transistors?

Makes it hard to implement the digital LCD frequency counter readout.

Mike K1MG

> From: Hendricks, Doug <ki6ds@dpol.k12.ca.us>
> Others have asked about using PNP transistors... Post your opinions...

Date: Wed, 29 Oct 1997 15:34:22 -0700
From: Ed Loranger <we6w@qsl.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [29891] Re: 2222 Design contest questions
Message-ID: <3457B9CE.5B1D@qsl.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Having reached my weekly posting limit -- HI! Mike said it for me! Thanks Mike. I agree completely. Especially the complementary TUBE issue! They did without, so can we.

Probably don't need a transistor limit of 22, most will probably limit themselves anyway. Not many will have their 5 watt, 400 transistor rig kitted.... Hi!

Now, how many 2n2222's will it take for that internal keyer....
72/Ed Loranger, we6w

Michael A. Gipe wrote:

>
> Yes, it is certainly possible to build a transceiver without PNPs. Tube
> rig designers never had the luxury of a complementary device. Of course,
> the circuits will use things like transformers in places where we wouldn't
> normally use them today.
>
> I would vote for leaving the contest as is...except maybe the total
> transistor count. How can you do everything with only 22 transistors?
> Makes it hard to implement the digital LCD frequency counter readout.
>
> Mike K1MG

--
72/73 de we6w qrp es cw ONLY (From non-ham to extra in one day!)

HW-8,0HR-100, Pixie2, Johnson Viking II, Drake TR-3
QRP-L#1068,ARCI#9397,Norcal#2227,ARS#275,AR#112 grid CM88ok
mailto:we6w@qsl.net http://www.qsl.net/we6w

Date: Wed, 29 Oct 1997 17:41:49 -0500
From: "Bob Edwards, W4ED" <w4ed@flash.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29892] Re: Norcal 2222 Design Contest
Message-ID: <3457BBAB.E38778B0@flash.net>
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="-----
BB8D7BD881E1784CD928E79E"

-----BB8D7BD881E1784CD928E79E
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Freeberg, Scott (STP) wrote:

> ...The Norcal 2222 design contest is a great idea.

Yes, lots of fun ahead for lots of QRP-Lers.

> ...One list member commented that he wished that PNPs....

I also vote, urge, nudge those who can decide: to reconsider
PNPs (2N2907) and/or limit the PNP count to no more than ____.

Not whining, just saying my opinion, fwiw.

--

Bob 72/73

<http://www.qsl.net/w4ed>

W4ED nr Atlanta @EM73wt

...."QRP", more from less....

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-----BB8D7BD881E1784CD928E79E
Content-Type: text/html; charset=us-ascii
Content-Transfer-Encoding: 7bit

<HTML>

Subject: [29893] Re: 2222 Design contest questions
Message-ID: <3.0.3.32.19971029155447.006bca38@eaglerock.if.sciencetech.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

My vote would be 2222, 3904/3906, 4401/4403... That is maintain the concept but allow the pnp variant and the two most common generic equivalent devices.

I really like the contest concept.

Niel

Niel Skousen: Sr.Eng, SCIENTECH.SPG/CFG nskousen@sciencetech.com
208.525.3742, FAX 529.4721 Idaho Falls ID WA7SSA QRP-L.119
Z-----DN33wm--- . . . -

Date: Wed, 29 Oct 1997 22:58:46 GMT
From: adams@chuck.dallas.sgi.com (Chuck Adams)
To: qrp-l@Lehigh.EDU
Subject: [29894] Spots
Message-ID: <199710292258.WAA02002@chuck.dallas.sgi.com>

The spots are coming! The spots are coming! Watch the sun.....

Chuck Adams K5FO CP-60 adams@sgi.com
<http://reality.sgi.com/adams/index.html>

Date: Wed, 29 Oct 1997 16:10:30 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Cc: qrp-l@Lehigh.EDU
Subject: [29895] Re: 455kHz ceramic filter differences
Message-ID: <Pine.SOL.3.91.971029153507.2559A-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Thu, 30 Oct 1997, W. Daniel, 9V1ZV wrote:

- > 1. What is the difference between a CFWM455E and a CFW455E? Do they belong
- > to the same family, and thus share the same basic characteristics?
- > (except bandwidth perhaps?)

Do you know the manufacturer of these? I'll see if we have a catalog and pass on the specs.

- > 2. I am looking for a "flat group delay filter". I'd appreciate if someone
- > enlighten me on this. I understand that some filter types introduce
- > phase distortions and flat group delay filters don't. How do I tell the
- > difference?

Each given frequency applied to a filter will have a certain time delay as it propagates through a filter. Group delay looks at the time delays of the lowest to the highest frequency to be passed through a filter. A filter with a "flat group delay" means that all frequencies within the total bandwidth of the filter propagate at the same time delay, or with the same phase delay. For example, take the typical 4 pole crystal filter in most QRP rigs. It is intended to have a very narrow bandwidth and all frequencies applied lower or higher than the center frequency will be phase shifted compared to the center frequency. Of course in this case, that's OK, since you're striving for a narrow bandwidth. For most QRP applications, I wouldn't think a flat group delay filter (and it's added expense) would add anything.

Usually a filter's group delay is only important for WIDE bandwidths, for example in cable TV or telecommunication circuits where you may have a bandpass filter many MHz wide. In such cases, you want ALL the channels applied to the filter to propagate through the filter equally (or have the same phase delay).

Also remember that the very word PHASE means you are comparing two different signals. With one signal in, and one signal out of a filter, what point is there to knowing what the phase delay is? On the other hand, if the one signal out is mixed with an LO oscillator expecting a certain phase relationship, then it becomes important. Or if a jillion FM signals are going through a filter, you want the stereo subcarrier to kinda show up on all signals at the same time. But for the generally narrow filters used in HF communications, group delays through a filter do not play a pertinent part.

- > 3. Will impedance mismatch in the IF stages result in phase distortion or
- > just plain losses?

Both. An impedance mismatch means power will not be transferred efficiently, which means a loss. The gain through an IF amplifier (or any active device) is called it's "transfer function," which consists of

both real (magnitude) and imaginary (phase) components. The impedance of the circuit plays a large role in the imaginary, or phase, component. Anything that effects the overall impedance at the input and/or output nodes of a circuit, such as Miller effect capacitance, stray capacitance, inductance in the leads, etc. will effect the imaginary part of the transfer function, which means it will effect the over phase through the device.

But again, it depends on how you want to draw the line on phase delays through an active stage. For most QRP applications, the total phase through a stage hardly brings a concern. But if you had a wide-band amplifier stage passing cable TV signals (numerous channels), then the phase delays imposed on the lowest frequency to the highest frequency (many MHz) may be a concern. But not generally for a 1-2 KHz signal typical to HF/QRP communications.

>

> I know these are rather unusual questions but I'd appreciate any
> pointers. Thanks.

These are very good questions, and a part of filter behavior few people think about.

But what does this have to do with using 2N2222's? -hi.

72, Paul NA5N

Date: Wed, 29 Oct 1997 16:24:42 -0800
From: "Russell W. white" <ruswhite@netzone.com>
To: qrp-1@Lehigh.EDU
Subject: [29896] Re: CW and JAG
Message-ID: <3.0.3.32.19971029162442.007c5870@pop.netzone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The good thing about the episode, is that most of the viewers would just figure that they were using Morse code or the ham radio type code. This shows many people that code is still useful, which is a positive thing.

Russ

Date: Wed, 29 Oct 1997 15:35:31 -0800
From: "Michael A. Gipe" <mgipe@reliablemeters.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [29897] Re: 455kHz ceramic filter differences
Message-ID: <199710292334.RAA04877@multi13.netcomi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

I just have one point to add to Paul's excellent explanation.

The two most common applications where the group delay characteristic of filters is very important are television and digital communications.

As Paul mentioned, television requires a wide bandwidth and, of course, the color value is phase encoded, so naturally, you must preserve the phase information to within a few degrees.

Digital radio communications predominately uses FSK or BPSK, frequency or phase modulation, respectively. Any difference in the delay through the filter for each of the signal levels (mark/space) will make it more difficult to discriminate between the two levels. The bottom line is that non-flat group delay directly reduces the sensitivity of a digital receiver.

I suspect that, even at the narrow bandwidths of CW, improving the group delay characteristics of the filter may help the ear decode the signal better. Hmmm... Might be an interesting experiment to try with DSP...

Mike K1MG

Date: Wed, 29 Oct 1997 16:40:06 -0700 (MST)
From: Paul Harden <pharden@aoc.nrao.edu>
To: "Freeberg, Scott (STP)" <qc01870@stp03.guidant.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29898] Re: Norcal 2222 Design Contest
Message-ID: <Pine.SOL.3.91.971029163120.7872B-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 29 Oct 1997, Freeberg, Scott (STP) wrote:

>
> The Norcal 2222 design contest is a great idea. I was wondering if the
> some or all of the entries (schematic, write up, and performance
> observations) can be scanned in and put on the Norcal page after the
> contest is over.

Depending on the number of entries at Dayton (and next year at PacifiCon?), a number of the entries will end up as articles in QRPP and perhaps Communications Quarterly. It has already been informally discussed about documenting the best 2-3 rigs into articles for a complete "build it yourself ugly style" construction projects. Stay tuned.

It would be nice to share some of the preliminary or conceptual designs via a web site or two. Any volunteers? Poor ole Jerry Parker, NorCal webmeister, keeps busy enough with maintaining his pages.

> It would be fun and interesting to see each entry, study the design and
> implementation, and marvel (yes, marvel) at the creativity or uniqueness
> of each design. A good (best) learning experience for us who would like
> to learn how to design a transceiver, transmitter, or receiver.

This is the whole point of PacifiCon and Dayton ... to see with your own eyes these great works of art, visit with the builders, find out how they designed the circuits, etc. With the interest shown so far in this project, I would think a couple of good circuit design forums at Dayton and PacifiCon may be on the schedule. (hint, hint)

> Scott WA9WFA St Paul MN
> ARCI 7299

72, Paul NA5N

Date: Wed, 29 Oct 1997 18:31:00 -0400
From: "Steven Pituch" <n2mnn@spacegate.com>
To: "QRP-L message" <qrp-l@Lehigh.EDU>
Subject: [29899] Call Sign Change for N2MNN
Message-ID: <011fd5641231da7NS@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi,

Well the FCC system does work. I just want to tell everyone who recognizes my old call, N2MNN, that I am now W2MY, which is a 1x2 version of my father's call W2MBY.

FOX-son John, who was KC2CFZ, is now W2MBY.

72,

Steve, W2MY, (was N2MNN)

Date: Wed, 29 Oct 1997 18:41:30 -0400
From: "Steven Pituch" <n2mnn@spacegate.com>
To: "QRP-L message" <qrp-l@Lehigh.EDU>
Subject: [29900] FOX: N/T fox sched
Message-ID: <0125c5741231da7NS@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

To Lee KB8WEV,

My mail to you has been bouncing. You asked John for the N/T Fox sched. I am posting the N/T Fox sched below since I haven't found it on QRP-L with the regular Fox schedule. I figure it is short and others might appreciate the info.

	UTC
KB7MBI	OCT 27 2-4
KF4HAW	28 1-3
KC2CFZ	31 1-3

KB7MBI	NOV 0 2-4
KF4HAW	4 1-3
KC2CFZ	8 2-4
KB7MBI	10 2-4
KB0VRV	14 1-3
KB0VRV	17 1-3
KB7MBI	17 2-4
KF4HAW	18 1-3
KB0VRV	21 1-3
KC2CFZ	22 2-4
KB0VRV	24 1-3
KB7MBI	24 2-4

KB0VRV 28 1-3

KB0VRV DEC 1 1-3

KB7MBI 1 2-4

KB0VRV 5 1-3

KC2CFZ 6 2-4

KB7MBI 7 2-4

KB0VRV 8 1-3

KF4HAW 9 1-3

KB7MBI 14 2-4

KF4HAW 16 1-3

KC2CFZ 20 2-4

KB7MBI 21 2-4

KB7MBI 28 2-4

72,

Steve, W2MY (ex N2MNN) for John, W2MBY (ex KC2CFZ)

Date: Wed, 29 Oct 1997 18:26:26 -0400
From: "Steven Pituch" <n2mnn@spacegate.com>
To: "QRP-L message" <qrp-l@Lehigh.EDU>
Subject: [29901] FOX: Thurs night N/T FOX
Message-ID: <00f311142231da7NS@spacegate.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hello,

I am the N/T Fox Oct 31, 1 to 3 UTC (thats Thursday evening 8 to 10 PM EST). I had a great time last week, and I hope to better my previous record of 15 contacts.

Try to give YOUR call once, maybe twice if I hesitate. That means I don't need to hear MY call at all if you are reasonably close to my frequency. The N/T exchange is RST NAME STATE.

Oh yes, don't look for KC2CFZ anymore. I am now W2MBY. It was my Grandfather's call. He was in the Signal Corps, at the Khyber Pass, during World War Two.

So its N/T FOX, John, W2MBY, Oct 31, 1 to 3 UTC, from NNJ. I will be using a KNWD TS-850 at 5 W, and a 40 M vertical loop.

See you on 40 meters.

72,

John, W2MBY (ex KC2CFZ)

Date: Wed, 29 Oct 1997 15:43:55 -0800 (PST)
From: Monte Stark <ku7y@sage.dri.edu>
To: ki6ds@dpol.k12.ca.us
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [29902] Re: 2222 Design contest questions
Message-ID: <Pine.SUN.3.90.971029154119.326A-100000@vortex>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Doug,

I say leave it as is. Methinks it can be done.....

However, to encourage efficiency along with just 2222's, how
about a max current draw?

Say nothing over .5 amp total. :-)

73, Ron, SOWP 5545M,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

End of QRP-L Digest 893

